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A. EVALUATION

1. SE 005 944 1 04 23 20
ALTENBURG, JOHN F.; AND OTHERS
COMPUTER GRADING OF GENERAL CHEMISTRY LABORATORY REPORTS

JOURNAL OF CHEMICAL EDUCATION

08 00 68 2 **COLLEGE SCIENCE, **CHEMISTRY, **COMPUTERS, **EVALUATION, **GRADING

2. SE 004 695 3 04 81 17
AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE
SCIENCE - A PROCESS APPROACH. AN EVALUATION MODEL AND ITS APPLICATION, SECOND

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, WASHINGTON, D.C. AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, WASHINGTON, D.C.

ED 025 406 NOT AVAILABLE FROM EDRS

68 238

*CURRICULUM EVALUATION, *EVALUATION, *ELEMENTARY SCHOOL SCIENCE, BEHAVIORAL OBJECTIVES, CURRICULUM, EDUCATIONAL PROGRAMS, PROGRAM EVALUATION, RESEARCH REPORTS, SOCIOECONOMIC INFLUENCES, SCIENCE COURSE IMPROVEMENT PROJECT, NATIONAL SCIENCE FOUNDATION, AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, SCIENCE - A PROCESS APPROACH

3. SE 005 255 1 04 12 12

BEYER, ROBERT L.

EVERY PUPIL ACHIEVEMENT TEST - BIOLOGY

KANSAS STATE TEACHERS COLLEGE, EMPORIA, BUREAU OF EDUCATIONAL MEASUREMENTS 04 05 67 2

*BIOLOGY, *EVALUATION, *SECONDARY SCHOOL SCIENCE, ACHIEVEMENT TESTS, MULTIPLE CHOICE TESTS, TESTS, 1967

4. SE 005 018 1 04 72 12

BLANC, SAM S.; AND OTHERS

TESTS FOR MODERN SCIENCE - MAN, MATTER, AND ENERGY

HOLT, RINEHART AND WINSTON, INC., NEW YORK, NEW YORK

67 78

*ACHIEVEMENT TESTS, *EVALUATION, *GENERAL SCIENCE, *SECONDARY SCHOOL SCIENCE, *TESTS, INSTRUCTIONAL MATERIALS, OBJECTIVE TESTS, 1967

5. SE 004 383 1 04 81 31

BROWN, H. JESS

A CONCEPT PREREQUISITE AND DEVELOPMENT TEST FOR THE FIRST GRADE JOURNAL OF RESEARCH IN SCIENCE TEACHING

68 2.

*ELEMENTARY SCHOOL SCIENCE, *EVALUATION, *GRADE 1, CONCEPT FORMATION, COGNITIVE PROCESSES, STANDARDIZED TESTS, TESTS



6. SE 004 726 1 04 09 29

CALIFORNIA STATE DEPARTMENT OF EDUCATION

GUIDELINES FOR MILLER MATHEMATICS IMPROVEMENT PROGRAMS, MATHEMATICS SPECIALISTS PROJECT

CALIFORNIA STATE DEPARTMENT OF EDUCATION

CALIFORNIA STATE DEPARTMENT OF EDUCATION

68 13

*CURRICULUM, *EVALUATION, *ELEMENTARY SCHOOL MATHEMATICS, *GUIDELINES, *MATHEMATICS, *SECONDARY SCHOOL MATHEMATICS, INSTRUCTION, SPECIALISTS, TEACHERS, TEACHER EDUCATION, CALIFORNIA

7. SE 004 727 1 04 09 29

CALIFORNIA STATE DEPARTMENT OF EDUCATION

GUIDELINES FOR MILLER MATHEMATICS IMPROVEMENT PROGRAMS, TEST DEVELOPMENT

CALIFORNIA STATE DEPARTMENT OF EDUCATION

CALIFORNIA STATE DEPARTMENT OF EDUCATION

68 7

*ACHIEVEMENT TESTS, *ELEMENTARY SCHOOL MATHEMATICS, *GUIDELINES, *MATHEMATICS, *SECONDARY SCHOOL MATHEMATICS, *TEST CONSTRUCTION, *TESTS, ACHIEVEMENT, ACADEMIC ACHIEVEMENT, CALIFORNIA

8. SE 005 549 1 04 09 12

CARDALL, ALFRED J.

ARITHMETICAL REASONING TEST

CARDALL ASSOCIATES, YARDLEY, PENNSYLVANIA

60 4

*ARITHMETIC, *BUSINESS SUBJECTS, *EVALUATION, *MATHEMATICS, *TESTS, BUSINESS, COLLEGE MATHEMATICS, NUMBER CONCEPTS, 1960

9. SE 005 548 1 04 86 12

CARDALL, ALFRED J.

TEST OF PRACTICAL JUDGMENT, FORM 62

CARDALL ASSOCIATES, YARDLEY, PENNSYLVANIA

61 8

*EVALUATION, *OCCUPATIONAL TESTS, *PROBLEM SOLVING, *PERSONALITY TESTS, *TESTS, ATTITUDE TESTS, 1961

10. SE 005 547 1 04 09 12

CARDALL, ALFRED J.; MILES, GERALD E.

MENTAL ALERTNESS TEST

CARDALL ASSOCIATES, YARDLEY, PENNSYLVANIA

60 7

*EVALUATION, *LEARNING, *PROBLEM SOLVING, *MENTAL TESTS, *TESTS, MATHEMATICAL CONCEPTS, MULTIPLE CHOICE TESTS, 1960



11. SE 005 141 1 04 81 17

CASTANO, PAULINA MAGLAQUE

DEVELOPMENT OF TECHNIQUES AND PROCEDURES FOR EVALUATING THE OBJECTIVES OF THE SIXTH GRADE SCIENCE PROGRAM IN THE ELEMENTARY SCHOOLS IN MANILA UNIVERSITY OF FLORIDA

UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN

67 327

*EVALUATION, *ELEMENTARY SCHOOL SCIENCE, *EDUCATIONAL OBJECTIVES, BEHAVIORAL OBJECTIVES, DOCTORAL THESES, GRADE 6, INTERNATIONAL EDUCATION, RESEARCH REPORTS, 1967, PHILLIPINES, MANILA

- 12. SE 005 305 1 04 13 32
 COMMISSION ON UNDERGRADUATE EDUCATION IN THE BIOLOGICAL SCIENCES
 CUEBS NEWS, VOLUME IV, NUMBER 2
 COMMISSION ON UNDERGRADUATE EDUCATION IN THE BIOLOGICAL SCIENCES
 12 00 67 12
 *BIOLOGY, *COLLEGE SCIENCE, *EVALUATION, *PROFESSIONAL ASSOCIATIONS, *TESTING,
 ITEM ANALYSIS, NEWSLETTERS, TEST CONSTRUCTION, UNDERGRADUATE EDUCATION,
 COMMISSION ON UNDERGRADUATE EDUCATION IN THE BIOLOGICAL SCIENCES
- COMMISSION ON UNDERGRADUATE EDUCATION IN THE BIOLOGICAL SCIENCES
 TESTING AND EVALUATION IN THE BIOLOGICAL SCIENCES
 COMMISSION ON UNDERGRADUATE EDUCATION IN THE BIOLOGICAL SCIENCES
 11 00 67
 *ACHIEVEMENT TESTS, *BIOLOGY, *COLLEGE SCIENCE, *EVALUATION, *OBJECTIVE TESTS,
 *TESTING, ECOLOGY, ESSAY TESTS, INSTRUCTION, SECONDARY SCHOOL SCIENCE, TEST
 CONSTRUCTION, COMMISSION ON UNDERGRADUATE EDUCATION IN THE BIOLOGICAL SCIENCES,
 BLOOM'S TAXONOMY OF EDUCATIONAL OBJECTIVES
- 14. SE 005 974 3 04 09 12

CONNOLLY, AUSTIN JAY

AN INSTRUMENT OF MEASUREMENT TO APPRAISE THE ARITHMETIC ABILITIES OF EDUCABLE MENTALLY RETARDED CHILDREN AGES THIRTEEN THROUGH SIXTEEN COLORADO STATE COLLEGE

UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN

ED 025 434 NOT AVAILABLE FROM EDRS

68 157

*ACHIEVEMENT, *EVALUATION, *LOW ABILITY STUDENTS, *MATHEMATICS, *TESTS, ARITHMETIC, MEASUREMENT INSTRUMENTS, TEST CONSTRUCTION



15. SE 004 142 1 04 09 17

COX, RICHARD C.; GRAHAM, GLENN T.
THE DEVELOPMENT OF A SEQUENTIALLY SCALED ACHIEVEMENT TEST
JOURNAL OF EDUCATIONAL MEASUREMENT

66 4

*ACHIEVEMENT TESTS, *ARITHMETIC, *EVALUATION, *MATHEMATICS, *TESTS, GRADE 1, GRADE 2, INDIVIDUAL INSTRUCTION, LEARNING RESEARCH AND DEVELOPMENT CENTER, UNIVERSITY OF PITTSBURGH

16. SE 004 738 1 04 86 17

COX, RICHARD C.; STERRETT, BARBARA G.

THE APPLICATION OF A MODEL FOR DERIVING MORE MEANING FROM STANDARDIZED TEST RESULTS

UNIVERSITY OF PITTSBURGH, LEARNING RESEARCH AND DEVELOPMENT CENTER 02 00 68 8

*EVALUATION TECHNIQUES, *EVALUATION, *ITEM ANALYSIS, *TEST CONSTRUCTION, *TEST RELIABILITY, MODELS, PUPIL ACHIEVEMENT, RESEARCH REPORTS, STANDARDIZED TESTS, INDIVIDUALLY PRESCRIBED INSTRUCTION

17. SE 005 271 1 04 35 12

CROW, LESTER D.; COOK, ROY S.

GENERAL PHYSICS TEST, NATIONAL ACHIEVEMENT TESTS SPECIMEN KIT ACORN PUBLISHING COMPANY, ROCKVILLE CENTRE, NEW YORK

59 12

*ACHIEVEMENT TESTS, *COLLEGE SCIENCE, *EVALUATION, *PHYSICS, *SECONDARY SCHOOL SCIENCE, *SCIENCE TESTS, *TESTS, MULTIPLE CHOICE TESTS, TEST INTERPRETATION, 1958

18. SE 005 254 1 04 52 12

CRUMB, GLENN H.

EVERY PUPIL ACHIEVEMENT TEST - GENERAL SCIENCE

KANSAS STATE TEACHERS COLLEGE, EMPORIA, BUREAU OF EDUCATIONAL MEASUREMENTS 04 00 68 2

*EVALUATION, *GENLRAL SCIENCE, *SECONDARY SCHOOL SCIENCE, ACHIEVEMENT TESTS, MULTIPLE CHOICE TESTS, TESTS, 1968

19. SE 005 252 1 04 32 12

CRUMB, GLENN H.

EVERY PUPIL ACHIEVEMENT TEST - PHYSICS

KANSAS STATE TEACHERS COLLEGE, EMPORIA, BUREAU OF EDUCATIONAL MEASUREMENTS

04 03 68 4

*EVALUATION, *PHYSICS, *SECONDARY SCHOOL SCIENCE, ACHIEVEMENT TESTS, MULTIPLE CHOICE TESTS, TESTS, 1968



20. SE 004 434

04 92 12

CULL, R. G.; AND OTHERS

OBJECTIVE TESTS IN SCIENCE

JACARANDA PRESS, 73 ELIZABETH STREET, BRISBANE, AUSTRALIA

ED 018 381 NOT AVAILABLE FROM EDRS

67

*ACHIEVEMENT TESTS, *EVALUATION, *SECONDARY SCHOOL SCIENCE, *SCIENCE TESTS, *TESTING, BIOLOGY, CHEMISTRY, ESSAY TESTS, EARTH SCIENCE, GENERAL SCIENCE MULTIPLE CHOICE TESTS, OBJECTIVE TESTS, PHYSICAL SCIENCES, PHYSICS, AUSTRALIA, NEW SOUTH WALES

21. SE 004 313

2

04 52 17

DRUMM, PAUL RAYMOND

A STUDY OF STRUCTURALLY DIFFERENT INFERENTIAL QUESTIONS IN THE COMPREHENSION OF NATURAL SCIENCE READING MATERIAL AT THE JUNIOR HIGH SCHOOL LEVEL TEMPLE UNIVERSITY, PHILADELPHIA, PENNSYLVANIA UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN

394

*ACHIEVEMENT TESTS, *SECONDARY SCHOOL SCIENCE, *TEST CONSTRUCTION, DOCTORAL THESES, NATURAL SCIENCES, READING TESTS, RESEARCH REPORTS

22. SE 005 247

04 09 12

ENGELSON, IELEEN

EVERY PUPIL ACHIEVEMENT TEST - ARITHMETIC GRADES VII-VIII KANSAS STATE TEACHERS COLLEGE, EMPORIA, BUREAU OF EDUCATIONAL MEASUREMENTS

*ARITHMETIC, *MATHEMATICS, *SECONDARY SCHOOL MATHEMATICS, ACHIEVEMENT TESTS, ACHIEVEMENT, GRADE 7, GRADE 8, MATHEMATICAL CONCEPTS, MULTIPLE CHOICE TESTS, NUMBER CONCEPTS, TESTS, 1968

23. SE 005 253

04 22 12

ERICSON, A. T.

EVERY PUPIL ACHIEVEMENT TEST - CHEMISTRY

KANSAS STATE TEACHERS COLLEGE, EMPORIA, BUREAU OF EDUCATIONAL MEASUREMENTS 01 10 68

*CHEMISTRY, *EVALUATION, *SECONDARY SCHOOL SCIENCE, ACHIEVEMENT TESTS, MULTIPLE CHOICE TESTS, TESTS, 1968

24. SE 005 638

04 32 17

ESPENSCHIED, JAMES R.; MERRIFIELD, PHILIP R.

A HIGH SCHOOL PHYSICS APTITUDE STUDY

KENT STATE UNIVERSITY, OHIO

02 00 66

*ACADEMIC APTITUDE, *ACHIEVEMENT, *EVALUATION, *PHYSICS, *SECONDARY SCHOOL SCIENCE, APTITUDE, RESEARCH REPORTS, IOWA TEST OF EDUCATIONAL DEVELOPMENT, AMERICAN EDUCATIONAL RESEARCH ASSOCIATION, 1966

04 86 03 SE 005 022 25.

FLAUGHER, RONALD L.; AND OTHERS CREDIT BY EXAMINATION FOR COLLEGE-LEVEL STUDIES - AN ANNOTATED BIBLIOGRAPHY COLLEGE ENTRANCE EXAMINATIONS BOARD, NEW YORK

233 67

*BIBLIOGRAPHIES, *COLLEGE PLACEMENT, *EVALUATION, *HIGHER EDUCATION, *STUDENT EVALUATION, ACHIEVEMENT TESTS, ANNOTATED BIBLIOGRAPHIES, COLLEGE CREDITS, CEEB, CARNEGIE CORPORATION, COLLEGE-LEVEL EXAMINATION PROGRAM

04 09 31 1 26. SE 005 669

FLOURNOY, FRANCES

THE DEVELOPMENT OF ARITHMETIC UNDERSTANDING TESTS FOR PRIMARY AND INTERMEDIATE

JOURNAL OF EDUCATIONAL RESEARCH

5 08 00 68

*ARITHMETIC, *ELEMENTARY SCHOOL MATHEMATICS, *EVALUATION, *MATHEMATICS, *TESTS, MULTIPLE CHOICE TESTS

- 04 85 17 27. SE 005 464 FISCHLER, ABRAHAM; ZIMMER, GEORGE THE DEVELOPMENT OF AN OBSERVATIONAL INSTRUMENT FOR SCIENCE TEACHING JOURNAL OF RESEARCH IN SCIENCE TEACHING
 - 11 68 *EVALUATION, *INSTRUCTION, *TEACHER CHARACTERISTICS, ELEMENTARY SCHOOL SCIENCE, QUESTIONING, RESEARCH REPORTS, SECONDARY SCHOOL SCIENCE, TEACHER IMPROVEMENT, TEACHER BEHAVIOR
- 04 85 12 2 SE 005 354 28. GALLAGHER, JAMES JOSEPH SEMANTIC DIFFERENTIAL TEST IN SCIENCE, FORM B EDUCATIONAL RESEARCH COUNCIL OF AMERICA, CLEVELAND, OHIO *ELEMENTARY SCHOOL SCIENCE, *EVALUATION, *SECONDARY SCHOOL SCIENCE, *STUDENT ATTITUDES, *TESTS, SCIENCE TEACHERS, SCIENCES, STUDENT CHARACTERISTICS, 1967
- 04 85 12 2 SE 005 353 29. GALLAGHER, JAMES JOSEPH SEMANTIC DIFFERENTIAL TEST IN SCIENCE, FORM C EDUCATIONAL RESEARCH COUNCIL OF AMERICA, CLEVELAND, OHIO 10 11 00 67 *ELEMENTARY SCHOOL SCIENCE, *EVALUATION, *STUDENT CHARACTERISTICS, *STUDENT ATTITUDES, *TESTS, MATHEMATICS, SECONDARY SCHOOL SCIENCE, SCIENCES, 1967, SEMANTIC DIFFERENTIAL



30. SE 005 350 1 04 82 12

GALLAGHER, JAMES JOSEPH SENTENCE COMPLETION TEST

EDUCATIONAL RESEARCH COUNCIL OF AMERICA, CLEVELAND, OHIO

11 00 67 4

*ATTITUDE TESTS, *EVALUATION, *SECONDARY SCHOOL SCIENCE, *TESTS, SCIENCES,

SCIENTISTS

31. SE 005 351 2 04 85 12

GALLAGHER, JAMES JOSEPH

THEMATIC APPERCEPTION TEST IN SCIENCE

EDUCATIONAL RESEARCH COUNCIL OF AMERICA, CLEVELAND, OHIO

4

*EVALUATION, *ELEMENTARY SCHOOL SCIENCE, *SECONDARY SCHOOL SCIENCE, *STUDENT

ATTITUDES, *TESTS, ATTITUDES, SCIENTISTS, SCIENCE

32. SE 005 349 1 04 82 12

GALLAGHER, JAMES JOSEPH

WORD ASSOCIATION TEST

EDUCATIONAL RESEARCH COUNCIL OF AMERICA, CLEVELAND, OHIO

11 00 67 1

*EVALUATION, *SECONDARY SCHOOL SCIENCE, *TESTS, *WORD ASSOCIATION TEST

33. SE 005 250 1 04 09 12

GERRIETS, JOHN

EVERY PUPIL ACHIEVEMENT TEST - GENERAL MATHEMATICS

KANSAS STATE TEACHERS COLLEGE, EMPORIA, BUREAU OF EDUCATIONAL MEASUREMENTS

04 00 68

*MATHEMATICS, *SECONDARY SCHOOL MATHEMATICS, ACHIEVEMENT TESTS, ACHIEVEMENT,

ADTTHMETIC ALGERDA GEOMETRY MATHEMATICAL CONCERTS NUMBER CONCERTS TESTS 1969

ARITHMETIC, ALGEBRA, GEOMETRY, MATHEMATICAL CONCEPTS, NUMBER CONCEPTS, TESTS, 1968

34. SE 005 763 3 04 85 17

GOODE, JOHN MERTON

THE DEVELOPMENT OF AN INSTRUMENT TO EVALUATE CERTAIN PRACTICES IN SCIENCE SUPERVISION

THE OHIO STATE UNIVERSITY, COLUMBUS

UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN

ED 025 426 NOT AVAILABLE FROM EDRS

68 142

*EVALUATION, *ELEMENTARY SCHOOL SCIENCE, *MEASUREMENT INSTRUMENTS, *SCIENCE SUPERVISION, *SUPERVISION, *SECONDARY SCHOOL SCIENCE, DOCTORAL THESES, NATIONAL SCIENCE SUPERVISORS ASSOCIATION



04 23 17 1 SE 005 942 35.

REPORTS

GORDON, ARNOLD J. EXAMINATION SYSTEMS AT THE GRADUATE LEVEL - A SURVEY AND ANALYSIS OF CHEMISTRY AND BIOCHEMISTRY IN THE UNITED STATES AND CANADA JOURNAL OF CHEMICAL EDUCATION *COLLEGES, *CHEMISTRY, *COLLEGE SCIENCE, *EVALUATION, *DOCTORAL PROGRAMS, DEGREE 09 00 68 PROGRAMS, DEGREE REQUIREMENTS, DEGREES (ACADEMIC), DOCTORAL DEGREES, RESEARCH

- 04 09 12 1 36. SE 005 249 HARRISON, VERLE EVERY PUPIL ACHIEVEMENT TEST - FIRST YEAR ALGEBRA KANSAS STATE TEACHERS COLLEGE, EMPORIA, BUREAU OF EDUCATIONAL MEASUREMENTS 04 03 68 *ALGEBRA, *MATHEMATICS, *SECONDARY SCHOOL MATHEMATICS, ACHIEVEMENT TESTS, ACHIEVEMENT, NUMBER CONCEPTS, TESTS, 1968
- 04 09 12 1 SE 005 245 37. HARRISON, VERLE EVERY PUPIL ACHIEVEMENT TEST - PLANE GEOMETRY KANSAS STATE TEACHERS COLLEGE, EMPORIA, BUREAU OF EDUCATION MEASUREMENT 01 00 68 *MATHEMATICS, *PLANE GEOMETRY, *SECONDARY SCHOOL MATHEMATICS, ACHIEVEMENT TESTS, ACHIEVEMENT, GEOMETRY, GEOMETRIC CONCEPTS, MATHEMATICAL CONCEPTS, NUMBER CONCEPTS, TESTS, 1968
- 04 09 12 38. SE 005 372 HARTUNG, MAURICE L.; AND OTHERS SEEING THROUGH ARITHMETIC TESTS FOR GRADES 3-6, SPECIMEN KIT SCOTT, FORESMAN AND COMPANY, CHIGAGO, ILLINOIS *ARITHMETIC, *ELEMENTARY SCHOOL MATHEMATICS, *EVALUATION, *MATHEMATICS, ACHIEVEMENT, ACHIEVEMENT TESTS, MATHEMATICAL CONCEPTS, MULTIPLE CHOICE TESTS, PROBLEM SOLVING, TESTS
- 04 09 19 1 39. SE 004 550 HEATHERS, GLEN LEARNING, MENTAL HEALTH, AND TESTING UNIVERSITY OF PITTSBURGH, PENNSYLVANIA, LEARNING RESEARCH AND DEVELOPMENT CENTER 11 03 00 66 *ACHIEVEMENT TESTS, *DIAGNOSTIC TESTS, *EVALUATION, *LEARNING, *MENTAL HEALTH, *PERFORMANCE TESTS, *TESTING, CURRICULUM, INDIVIDUAL INSTRUCTION, INTELLIGENCE TESTS, SCIENCE, TEST CONSTRUCTION

04 31 15 40. SE 004 904

HELGESON, STANLEY L.

LESSON PLANS AND TESTS OF KNOWLEDGE, COMPREHENSION, AND APPLICATION FOR INSTRUCTION IN CONCEPTS OF FORCE, GRADES 2-6

UNIVERSITY OF WISCONSIN, MADISON, RESEARCH AND DEVELOPMENT CENTER **EDRS**

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03 00 68 45

*ELEMENTARY SCHOOL SCIENCE, *FORCES (PHYSICAL), *INSTRUCTION, *PHYSICS, *TEACHING GUIDES, ACADEMIC ACHIEVEMENT, COGNITIVE PROCESSES, CONCEPT FORMATION, EVALUATION, LEARNING, PHYSICAL SCIENCES, TESTS, RESEARCH REPORTS, SCIENCE CONCEPT LEARNING PROJECT

04 22 17 SE 004 703 1 41.

HENDRICKSON, CHARLES W.; JUDGE, AL

THE ACS-NSTA CHEMISTRY TESTS - A REPORT ON THE 1967 TEST FOR FIRST-YEAR HIGH SCHOOL CHEMISTRY

THE SCIENCE TEACHER

04 00 68

*ACHIEVEMENT TESTS, *CHEMISTRY, *EVALUATION, *SCIENCE TESTS, *SECONDARY SCHOOL SCIENCE, ACS-NSTA COOPERATIVE EXAMINATION IN HIGH SCHOOL CHEMISTRY, CHEMICAL BOND APPROACH, CHEMICAL EDUCATION MATERIALS STUDY

04 12 20 1 42. SE 005 808

HOGG, M. E.

THE NUFFIELD O-LEVEL BIOLOGY PROJECT, EXAMINATIONS AND TEACHERS IN TRAINING JOURNAL OF BIOLOGICAL EDUCATION

09 00 68

3 *BIOLOGY, *COURSE CONTENT EVALUATION, *EVALUATION, *INTERNATIONAL EDUCATION, *SECONDARY SCHOOL SCIENCE, GRADE 10, NUFFIELD PROJECT BIOLOGY

04 82 17 2 SE 006 003 43.

HOLMES, NEAL JAY

THE DEVELOPMENT AND EVALUATION OF AN OBSERVATIONAL SYSTEM DESIGNED TO MEASURE SCIENCE CLASSROOM ACTIVITY FROM THE HALL

OKLAHOMA STATE UNIVERSITY

UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN

117

*CLASS ACTIVITIES, *EVALUATION, *OBSERVATION, *SECONDARY SCHOOL SCIENCE, *SCIENCE ACTIVITIES, DOCTORAL THESES, FILMS, INSTRUCTION, RESEARCH REPORTS, 1967



1 SE 005 807 44.

HOLWAY, P. H.

A-LEVEL PAPERS IN BIOLOGY AS TESTS OF SCIENTIFIC THINKING JOURNAL OF BIOLOGICAL EDUCATION

12 09 00 68

*BIOLOGY, *EVALUATION, *SECONDARY SCHOOL SCIENCE, INTERNATIONAL EDUCATION, SCIENCE TESTS, TESTS, NUFFIELD SCIENCE TEACHING PROJECT, 1968

04 12 20

04 86 20 1 45. SE 004 185

JEFFREY, JACK

THOUGHTS ON TESTING

SCHOOL SCIENCE AND MATHEMATICS

*EVALUATION, *TESTS, *TESTING PROBLEMS, OBJECTIVE TESTS, SUBJECTIVE TESTS

04 22 17 2 SE 004 028

JEFFREY, JACK CASSELL

IDENTIFICATION OF OBJECTIVES OF THE CHEMISTRY LABORATORY AND DEVELOPMENT OF MEANS FOR MEASURING STUDENT ACHIEVEMENT OF SOME OF THESE OBJECTIVES TEXAS UNIVERSITY, AUSTIN

UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN

194 65

*CHEMISTRY, *COURSE OBJECTIVES, *COLLEGE SCIENCE, *EVALUATION, *INSTRUCTION, *SECONDARY SCHOOL SCIENCE, AUDIOVISUAL AIDS, ACHIEVEMENT, DOCTORAL THESES, INDIVIDUAL INSTRUCTION, LABORATORY TECHNIQUES, LABORATORY EXPERIMENTS, RESEARCH REPORTS, SCIENCE COURSE IMPROVEMENT PROJECT, TEACHING METHODS, TESTS, TEACHING TECHNIQUES, CHEMICAL BOND APPROACH PROJECT, CHEMICAL EDUCATION MATERIALS STUDY, 1965

04 85 37 1 47. SE 004 953

KASPER, GENE

BULLETIN OF INFORMATION - KANSAS STATE TEACHERS COLLEGE OF EMPORIA BUREAU OF EDUCATIONAL MEASUREMENTS, KANSAS STATE TEACHERS COLLEGE, EMPORIA 14 *ELEMENTARY SCHOOL SCIENCE, *EVALUATION, *NORMS, *TEST INTERPRETATION, ARITHMETIC, ENGLISH, HEALTH, READING, SOCIAL STUDIES, KANSAS STATE TEACHERS COLLEGE, EVERY PUPIL ACHIEVEMENT TEST

04 09 12 1 SE 005 366 48.

KELLEY, TRUMAN L.; AND OTHERS STANFORD ACHIEVEMENT TEST, SPECIMEN SET, ADVANCED BATTERY HARCOURT, BRACE AND WORLD, INC., NEW YORK, NEW YORK

26 64 *ARITHMETIC, *ELEMENTARY SCHOOL MATHEMATICS, *EVALUATION, *MATHEMATICS, ACHIEVEMENT, ACHIEVEMENT TESTS, MATHEMATICAL CONCEPTS, MULTIPLE CHOICE TESTS, PROBLEM SOLVING, TESTS

49. SE 005 368 1 04 09 12

KELLEY, TRUMAN L.; AND OTHERS

STANFORD ACHIEVEMENT TEST, SPECIMEN SET, INTERMEDIATE I BATTERY HARCOURT, BRACE AND WORLD, INC., NEW YORK, NEW YORK

64 23

*ARITHMETIC, *ELEMENTARY SCHOOL MATHEMATICS, *EVALUATION, *MATHEMATICS, ACHIEVEMENT, ACHIEVEMENT TESTS, MATHEMATICAL CONCEPTS, MULTIPLE CHOICE TESTS, PROBLEM SOLVING, TESTS

50. SE 005 367 1 04 09 12

KELLEY, TRUMAN L.; AND OTHERS

STANFORD ACHIEVEMENT TEST, SPECIMEN SET, INTERMEDIATE II BATTERY

HARCOURT, BRACE AND WORLD, INC., NEW YORK, NEW YORK

64 26

*ARITHMETIC, *ELEMENTARY SCHOOL MATHEMATICS, *EVALUATION, *MATHEMATICS, ACHIEVEMENT, ACHIEVEMENT TESTS, MATHEMATICAL CONCEPTS, MULTIPLE CHOICE TESTS, TESTS

51. SE 005 544 1 04 12 12

KELLY, P. J.; DOWDESWELL, W. H.

NUFFIELD A-LEVEL BIOLOGY PROJECT, REPORT OF THE TRIAL EXAMINATIONS MARCH AND JULY, 1967

THE NUFFIELD FOUNDATION, ENGLAND

01 00 68 27

*ACHIEVEMENT TESTS, *BIOLOGY, *EVALUATION, *SECONDARY SCHOOL SCIENCE, *TEST CONSTRUCTION, MULTIPLE CHOICE QUESTIONS, NUFFIELD FOUNDATION, ENGLAND, 1968, NUFFIELD A-LEVEL BIOLOGY PROJECT

- 52. SE 005 263 1 04 09 12
 - KLINE, WILLIAM E.; BAKER, HARRY J.
 BOBBS-MERRILL ARITHMETIC ACHIEVEMENT TESTS AND TEACHER'S MANUAL GRADE 1
 THE BOBBS-MERRILL COMPANY, INC., INDIANAPOLIS, NEW YORK
 - 63 13
 *ACHIEVEMENT TESTS, *ELEMENTARY SCHOOL MATHEMATICS, *EVALUATION, *MATHEMATICS,

**MATHEMATICAL CONCEPTS, ARITHMETIC, ACHIEVEMENT, GEOMETRY, GRADE 1, MULTIPLE CHOICE TESTS, NUMBER CONCEPTS, TESTS, 1963

53. SE 005 262 1 04 09 12

KLINE, WILLIAM E.; BAKER, HARRY J.

BOBBS-MERRILL ARITHMETIC ACHIEVEMENT TESTS AND TEACHER'S MANUAL - GRADE 2 THE BOBBS-MERRILL COMPANY, INC., INDIANAPOLIS, NEW YORK

63 15

*ACHIEVEMENT TESTS, *ELEMENTARY SCHOOL MATHEMATICS, *EVALUATION, *MATHEMATICS, MATHEMATICAL CONCEPTS, ARITHMETIC, ACHIEVEMENT, GEOMETRY, GRADE 2, MULTIPLE CHOICE TESTS, NUMBER CONCEPTS, TESTS, 1963



54. SE 005 261 1 04 09 12

KLINE, WILLIAM E.; BAKER, HARRY J.
BOBBS-MERRILL ARITHMETIC ACHIEVEMENT TESTS AND TEACHER'S MANUAL - GRADE 3
THE BOBBS-MERRILL COMPANY, INC., INDIANAPOLIS, NEW YORK

*ACHIEVEMENT TESTS, *ELEMENTARY SCHOOL MATHEMATICS, *EVALUATION, *MATHEMATICS, *MATHEMATICAL CONCEPTS, ARITHMETIC, ACHIEVEMENT, GEOMETRY, GRADE 3, MULTIPLE CHOICE TESTS, NUMBER CONCEPTS, TESTS, 1963

- 55. SE 005 260 1 04 09 12

 KLINE, WILLIAM E.; BAKER, HARRY J.

 BOBBS-MERRILL ARITHMETIC ACHIEVEMENT TESTS AND TEACHER'S MANUAL GRADE 4

 THE BOBBS-MERRILL COMPANY, INC., INDIANAPOLIS, NEW YORK
 - *ACHIEVEMENT TESTS, *ELEMENTARY SCHOOL MATHEMATICS, *EVALUATION, *MATHEMATICS, *MATHEMATICAL CONCEPTS, ARITHMETIC, ACHIEVEMENT, GEOMETRY, GRADE 4, MULTIPLE CHOICE TESTS, NUMBER CONCEPTS, TESTS, 1963
- 56. SE 005 259 1 04 09 12

 KLINE, WILLIAM E.; BAKER, HARRY J.

 BOBBS-MERRILL ARITHMETIC ACHIEVEMENT TESTS AND TEACHER'S MANUAL GRADE 5

 THE BOBBS-MERRILL COMPANY, INC., INDIANAPOLIS, NEW YORK

 63 17

 *ACHIEVEMENT TESTS, *ELEMENTARY SCHOOL MATHEMATICS, *EVALUATION, *MATHEMATICS,
 ARITHMETIC, GEOMETRY, GRADE 5, MATHEMATICAL CONCEPTS, MULTIPLE CHOICE TESTS,
 NUMBER CONCEPTS, TESTS, 1963
- 57. SE 005 258 1 04 09 12

 KLINE, WILLIAM E.; BAKER, HARRY J.

 BOBBS-MERRILL ARITHMETIC ACHIEVEMENT TESTS AND TEACHER'S MANUAL GRADE 6

 THE BOBBS-MERRILL COMPANY, INC., INDIANAPOLIS, NEW YORK

 63 17

 *ACHIEVEMENT TESTS, *ELEMENTARY SCHOOL MATHEMATICS, *EVALUATION, ARITHMETIC, ACHIEVEMENT, GEOMETRY, GRADE 6, MATHEMATICS, MATHEMATICAL CONCEPTS, MULTIPLE

CHOICE TESTS, NUMBER CONCEPTS, TESTS, 1963

58. SE 005 257 1 04 09 12

KLINE, WILLIAM E.; BAKER HARRY J.

BOBBS-MERRILL ARITHMETIC ACHIEVEMENT TESTS AND TEACHER'S MANUAL - GRADE 7

BOBBS-MERRILL COMPANY, INC., INDIANAPOLIS, NEW YORK

63 17

*ACHIEVEMENT TESTS, *EVALUATION, *SECONDARY SCHOOL MATHEMATICS, ARITHMETIC, ACHIEVEMENT, GEOMETRY, GRADE 7, MATHEMATICS, MATHEMATICAL CONCEPTS, MULTIPLE CHOICE TESTS, NUMBER CONCEPTS, 1963

59. SE 005 256

1

04 09 12

KLINE, WILLIAM E.; BAKER, HARRY J.

BOBBS-MERRILL ARITHMETIC ACHIEVEMENT TESTS AND TEACHER'S MANUAL - GRADE 8 BOBBS-MERRILL COMPANY, INC.

63 17

*ACHIEVEMENT TESTS, *EVALUATION, *SECONDARY SCHOOL MATHEMATICS, ARITHMETIC, ACHIEVEMENT, GEOMETRY, GRADE 8, MATHEMATICS, MATHEMATICAL CONCEPTS, MULTIPLE CHOICE TESTS, NUMBER CONCEPTS, TESTS, 1963

60. SE 004 032

3

04 12 17

KOCHENDORFER, LEONARD

A COMPARATIVE STUDY OF THE CLASSROOM PRACTICES AND TEACHING RATIONALE OF HIGH SCHOOL BIOLOGY TEACHERS USING DIFFERENT CURRICULUM MATERIALS

TEXAS UNIVERSITY, AUSTIN

UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN

ED 020 125 NOT AVAILABLE FROM EDRS

66 104

*BIOLOGY, *EVALUATION, *INSTRUCTION, *SECONDARY SCHOOL SCIENCE, *TEACHER CHARACTERISTICS, DOCTORAL THESES, TEACHER EVALUATION, BIOLOGICAL SCIENCES CURRICULUM STUDY, BIOLOGY CLASSROOM ACTIVITY CHECKLIST, 1966

61. SE 005 356

3

04 12 12

KORTH, WILLARD W.

LIFE SCIENCE PROCESS TEST

EDUCATIONAL RESEARCH COUNCIL OF AMERICA, CLEVELAND, OHIO

EDUCATIONAL RESEARCH COUNCIL OF AMERICA, CLEVELAND, OHIO

ED 024 598 NOT AVAILABLE FROM EDRS

10 00 67 10

*BIOLOGY, *EVALUATION, *SECONDARY SCHOOL SCIENCE, *TESTS, MULTIPLE CHOICE TESTS

62. SE 005 347

2

14 82 12

KORTH, WILLARD W.

TEST ON THE SOCIAL ASPECTS OF SCIENCE

EDUCATIONAL RESEARCH COUNCIL OF AMERICA, CLEVELAND, OHIO

03 00 69 11

*EVALUATION, *SCIENTIFIC ATTITUDES, *TESTS, *STUDENT ATTITUDES, *SECONDARY SCHOOL SCIENCE, MULTIPLE CHOICE TESTS, 1968

63. SE 004 319

2

14 12 17

KRABILL, VINCENT JOSEPH

THE DEVELOPMENT OF A TEST TO MEASURE ABILITY OF STUDENTS TO APPLY PRINCIPLES OF BIOLOGY

COLORADO UNIVERSITY, DENVER

UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN

65 112

*BIOLOGY, *EVALUATION, *SCIENTIFIC PRINCIPLES, *SECONDARY SCHOOL SCIENCE, DOCTORAL THESES, MULTIPLE CHOICE TESTS, OBJECTIVE TESTS, PERFORMANCE TESTS, STUDENT ABILITY, TEST CONSTRUCTION, TEST VALIDITY, TEST RELIABILITY, 1965



64. SE 004 862

LEJEUNE, STANLEY JOSEPH

THE DEVELOPMENT OF AN INSTRUMENT TO DETERMINE ACHIEVEMENT IN MODERN MATHEMATICS IN GRADES FOUR, FIVE, AND SIX

04 09 17

UNIVERSITY OF MISSISSIPPI

UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN

NOT AVAILABLE FROM EDRS ED 025 408

269 67

*ACHIEVEMENT TESTS, *ELEMENTARY SCHOOL MATHEMATICS, *EVALUATION, *MATHEMATICS, *TESTS, ACHIEVEMENT, GRADE 4, GRADE 5, GRADE 6

04 25 38 SE 004 008 **65.**

LEPLEY, ARTHUR B.; HEINDAL, NED D. A CRITICISM OF DISTRIBUTION OF CORRECT ANSWER OPTION IN ACS STANDARDIZED EXAMS JOURNAL OF CHEMICAL EDUCATION

01 00 68 1

*CHEMISTRY, *COLLEGE SCIENCE, *EVALUATION, *MULTIPLE CHOICE TESTS, *RELIABILITY, *SECONDARY SCHOOL SCIENCE, *STANDARDIZED TESTS, TESTS

04 09 12 1 SE 005 240 66.

LOHMANN, V. L.

MINNESOTA HIGH SCHOOL ACHIEVEMENT EXAMINATIONS - ADVANCED ALGEBRA AMERICAN GUIDANCE SERVICE, INC., CIRCLE PINES, MINNESOTA

5

*ALGEBRA, *EVALUATION, *MATHEMATICS, *SECONDARY SCHOOL MATHEMATICS, ACHIEVEMENT TESTS, ACHIEVEMENT, MATHEMATICAL CONCEPTS, MULTIPLE CHOICE TESTS, NUMBER CONCEPTS, TESTS, 1968

02 12 12 1 67. SE 005 229

LOHMANN, V. L.

MINNESOTA HIGH SCHOOL ACHIEVEMENT EXAMINATIONS - BIOLOGY AMERICAN GUIDANCE SERVICE, INC., CIRCLE PINES, MINNESOTA

*BIOLOGY, *EVALUATION, *SECONDARY SCHOOL SCIENCE, ACHIEVEMENT TESTS, MULTIPLE CHOICE TESTS, TESTS, 1968

04 22 12 1 SE 005 234 68.

LOHMANN, V. L.

MINNESOTA HIGH SCHOOL ACHIEVEMENT EXAMINATIONS - CHEMISTRY AMERICAN GUIDANCE SERVICE, INC., CIRCLE PINES, MINNESOTA

*CHEMISTRY, *EVALUATION, *SECONDARY SCHOOL SCIENCE, ACHIEVEMENT TESTS, MULTIPLE CHOICE TESTS, TESTS, 1968



69. SE 005 235

1 04 92 37

LOHMANN, V. L.

MINNESOTA HIGH SCHOOL ACHIEVEMENT EXAMINATIONS, FORM EH REV. - MANUAL AMERICAN GUIDANCE SERVICE, INC., CIRCLE PINES, MINNESOTA

68 16

*EVALUATION, *SECONDARY SCHOOL SCIENCE, ACHIEVEMENT TESTS, ITEM ANALYSIS, MULTIPLE CHOICE TESTS, TESTS, TEST ADMINISTRATION, 1968

70. SE 005 241

•

04 09 12

LOHMANN, V. L.

MINNESOTA HIGH SCHOOL ACHIEVEMENT EXAMINATIONS - GENERAL MATHEMATICS, GRADE 9 AMERICAN GUIDANCE SERVICE, INC., CIRCLE PINES, MINNESOTA

68 *6*

*ARITHMETIC, *GEOMETRY, *MATHEMATICS, *SECONDARY SCHOOL MATHEMATICS, ACHIEVEMENT TESTS, ACHIEVEMENT, GEOMETRIC CONCEPTS, GRADE 9, MATHEMATICAL CONCEPTS, MULTIPLE CHOICE TESTS, NUMBER CONCEPTS, TESTS, 1968

71. SE 005 236

1

04 09 12

LOHMANN, V. L.

MINNESOTA HIGH SCHOOL ACHIEVEMENT EXAMINATIONS - MATHEMATICS, GRADE 7 AMERICAN GUIDANCE SERVICE, INC., CIRCLE PINES, MINNESOTA

68 4

*ACHIEVEMENT, *ARITHMETIC, *EVALUATION, *SECONDARY SCHOOL MATHEMATICS, *TESTS, ACADEMIC ACHIEVEMENT, GRADE 7, MATHEMATICS, MATHEMATICAL CONCEPTS, MULTIPLE CHOICE TESTS, NUMBER CONCEPTS, PROBLEM SOLVING, 1968

72. SE 005 237

04 09 12

LOHMANN, V. L.

MINNESOTA HIGH SCHOOL ACHIEVEMENT EXAMINATIONS - MATHEMATICS, GRADE 8 AMERICAN GUIDANCE SERVICE, INC., CIRCLE PINES, MINNESOTA

58 4

*ACHIEVEMENT TESTS, *MATHEMATICS, *SECONDARY SCHOOL MATHEMATICS, ACHIEVEMENT, ALGEBRA, ARITHMETIC, GRADE 8, GEOMETRIC CONCEPTS, GEOMETRY, MATHEMATICAL CONCEPTS, MULTIPLE CHOICE TESTS, NUMBER CONCEPTS, PLANE GEOMETRY, TESTS, 1968

73. SE 005 233

04 32 12

LOHMANN, V. L.

MINNESOTA HIGH SCHOOL ACHIEVEMENT EXAMINATIONS - PHYSICS AMERICAN GUIDANCE SERVICE, INC., CIRCLE PINES, MINNESOTA

1

68 6

*EVALUATION, *PHYSICS, *SECONDARY SCHOOL SCIENCE, ACHIEVEMENT TESTS, MULTIPLE CHOICE TESTS, TESTS, 1968



04 09 12 1 74. SE 005 238

LOHMANN, V. L. MINNESOTA HIGH SCHOOL ACHIEVEMENT EXAMINATIONS - PLANE GEOMETRY AMERICAN GUIDANCE SERVICE, INC., CIRCLE PINES, MINNESOTA

68 *MATHEMATICS, *PLANE GEOMETRY, *SECONDARY SCHOOL MATHEMATICS, ACHIEVEMENT TESTS, ACHIEVEMENT, GEOMETRIC CONCEPTS, GEOMETRY, MATHEMATICAL CONCEPTS, MULTIPLE

CHOICE TESTS, NUMBER CONCEPTS, TESTS, 1968

04 12 12 75. SE 005 232

LOHMANN, V. L. MINNESOTA HIGH SCHOOL ACHIEVEMENT EXAMINATIONS - SCIENCE, GRADE 7 AMERICAN GUIDANCE SERVICE, INC., CIRCLE PINES, MINNESOTA

*BIOLOGICAL SCIENCES, *EVALUATION, *GRADE 7, *SECONDARY SCHOOL SCIENCE, ACHIEVEMENT TESTS, MULTIPLE CHOICE TESTS, TESTS, 1968

04 42 12 1 SE 005 231 76. LOHMANN, V. L.

MINNESOTA HIGH SCHOOL ACHIEVEMENT EXAMINATIONS - SCIENCE, GRADE 8 AMERICAN GUIDANCE SERVICE, INC., CIRCLE PINES, MINNESOTA

68 *EARTH SCIENCE, *EVALUATION, *GRADE 8, *SECONDARY SCHOOL SCIENCE, ACHIEVEMENT TESTS, MULTIPLE CHOICE TESTS, TESTS, 1968

04 52 12 1 SE 005 230 77.

LOHMANN, V. L. MINNESOTA HIGH SCHOOL ACHIEVEMENT EXAMINATIONS - SCIENCE, GRADE 9 AMERICAN GUIDANCE SERVICE, INC., CIRCLE PINES, MINNESOTA

68 *EVALUATION, *GRADE 9, *PHYSICAL SCIENCE, *SECONDARY SCHOOL SCIENCE, ACHIEVEMENT TESTS, MULTIPLE CHOICE TESTS, TESTS, 1968

04 09 12 SE 005 239 **78.**

LOHMANN, V. L. MINNESOTA HIGH SCHOOL ACHIEVEMENT EXAMINATIONS - SOLID GEOMETRY AMERICAN GUIDANCE SERVICE, INC., CIRCLE PINES, MINNESOTA

68 *GEOMETRIC CONCEPTS, *MATHEMATICS, *SOLID GEOMETRY, *SECONDARY SCHOOL MATHEMATICS, ACHIEVEMENT TESTS, ACHIEVEMENT, GEOMETRY, MATHEMATICAL CONCEPTS, MULTIPLE CHOICE TESTS, NUMBER CONCEPTS, TESTS

79. SE 005 242 1 04 09 12

LOHMANN, V. L.

MINNESOTA HIGH SCHOOL ACHIEVEMENT EXAMINATIONS - TRIGONOMETRY AMERICAN GUIDANCE SERVICE, INC., CIRCLE PINES, MINNESOTA

68 4

*MATHEMATICS, *SECONDARY SCHOOL MATHEMATICS, *TRIGONOMETRY, ACHIEVEMENT TESTS, ACHIEVEMENT, MATHEMATICAL CONCEPTS, MULTIPLE CHOICE TESTS, NUMBER CONCEPTS, TESTS, 1968

80. SE 005 273 1 04 09 12

LONSKI, A. B.

ALGEBRA TEST FOR ENGINEERING AND SCIENCE, NATIONAL ACHIEVEMENT TESTS SPECIMEN KIT ACORN PUBLISHING COMPANY, ROCKVILLE CENTRE, NEW YORK

61 16

*ACHIEVEMENT TESTS, *ALGEBRA, *MATHEMATICS, *MATHEMATICAL CONCEPTS, *TESTS, ENGINEERING, GRADE 12, MULTIPLE CHOICE TESTS, SCIENCES

81. SE 004 739 1 04 86 17

MAGOON, JON; COX, RICHARD C.

THE PRINCIPAL COMPONENT STRUCTURE OF MULTIPLE GUTTMAN SCALES
UNIVERSITY OF PITTSBURGH, PENNSYLVANIA, LEARNING RESEARCH AND DEVELOPMENT CENTER
02 00 68 14

*EVALUATION, *FACTOR ANALYSIS, *STATISTICS, RESEARCH REPORTS, MULTIPLE GUTTMAN SCALES

82. SE 004 244 2 04 93 17

MARZOLF, STANLEY S.

INDIVIDUAL VARIABILITY ON THE ACT TESTS

JOURNAL OF EDUCATIONAL RESEARCH

12 00 67

*ACHIEVEMENT TESTS, *COLLEGE MATHEMATICS, *EVALUATION, *TEST RESULTS, COLLEGE STUDENTS, ENGLISH, MATHEMATICS, NATURAL SCIENCES, RESEARCH REPORTS, SOCIAL STUDIES, THE AMERICAN COLLEGE TESTING PROGRAM, 1967

83. SE 005 444 1 04 86 17

MAW, WALLACE H.

SELF-APPRAISAL OF CURIOSITY

JOURNAL OF EDUCATIONAL RESEARCH

07 00 68 4

*CURIOSITY, *EVALUATION, *ELEMENTARY SCHOOL STUDENTS, *SELF EVALUATION, GRADE 5, MEASUREMENT INSTRUMENTS, RESEARCH REPORTS, 1968



04 83 17 84. SE 005 778

MILLIGAN, FRANK GEOFFREY

INCREMENTAL VALIDITY OF A SEMANTIC DIFFERENTIAL INSTRUMENT FOR PREDICTING SCIENCE ACHIEVEMENT IN COMMUNITY COLLEGES

STATE UNIVERSTIY OF NEW YORK, BUFFALO

UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN

NOT AVAILABLE FROM EDRS ED 024 610

> 179 68

*ACADEMIC ACHIEVEMENT, *CCLLEGE SCIENCE, *EVALUATION, *TESTS, ATTITUDES, COMMUNITY COLLEGES, COLLEGE FRESHMEN, DOCTORAL THESES, PREDICTION, RESEARCH REPORTS, STUDENT ATTITUDES, SCIENCE COURSES, SEMANTIC-DIFFERENTIAL, MONROE COMMUNITY COLLEGE, ROCHESTER, NEW YORK, NIAGARA COMMUNITY COLLEGE, NIAGARA FALLS, NEW YORK STATE REGENTS SCHOLARSHIP EXAMINATION, 1968

04 15 31 3 SE 004 231 85.

NELSON, CLARENCE H.

IMPROVING OBJECTIVE TESTS IN SCIENCE

NATIONAL SCIENCE TEACHERS ASSOCIATION

HARD COPY NOT AVAILABLE MF \$0.25 ED 017 467

> 27 67

*EVALUATION, *TESTING, *TEST CONSTRUCTION, ACHIEVEMENT TESTS, COLLEGE SCIENCE, ELEMENTARY SCHOOL SCIENCE, EDUCATIONAL OBJECTIVES, OBJECTIVE TESTS, PROBLEM SOLVING, SECONDARY SCHOOL SCIENCE, NATIONAL SCIENCE TEACHERS ASSOCIATION

04 09 12 SE 005 264 1 86.

ORLEANS, JACOB S.

PUBLIC SCHOOL ACHIEVEMENT TESTS - ARITHMETIC COMPUTATION FORM 1, GRADES 3 TO 8 THE BOBBS-MERRILL COMPANY, INC., INDIANAPOLIS, NEW YORK

*ACHIEVEMENT TESTS, *ELEMENTARY SCHOOL MATHEMATICS, *EVALUATION, *MATHEMATICS, *MATHEMATICAL CONCEPTS, ARITHMETIC, ACHIEVEMENT, NUMBER CONCEPTS, TESTS

04 09 12 SE 005 246 87.

PEASE, PATRICIA M.

EVERY PUPIL ACHIEVEMENT TEST - PRIMARY ARITHMETIC GRADE I KANSAS STATE TEACHERS COLLEGE, EMPORIA, BUREAU OF EDUCATIONAL MEASUREMENTS

4 01 10 68 *ELEMENTARY SCHOOL MATHEMATICS, *MATHEMATICS, ACHIEVEMENT TESTS, ACHIEVEMENT, ARITHMETIC, GRADE 1, MATHEMATICAL CONCEPTS, NUMBER CONCEPTS, TESTS, 1968

04 09 12 1 SE 005 244 88.

PEASE, PATRICIA M.

EVERY PUPIL ACHIEVEMENT TEST - PRIMARY ARITHMETIC GRADES II-III KANSAS STATE TEACHERS COLLEGE, EMPORIA, BUREAU OF EDUCATION MEASUREMENT

01 10 68 *ELEMENTARY SCHOOL MATHEMATICS, *MATHEMATICS, ACHIEVEMENT TESTS, ACHIEVEMENT, ARITHMETIC, GRADE 2, GRADE 3, MATHEMATICAL CONCEPTS, NUMBER CONCEPTS, TESTS, 1968



04 12 12 89. SE 005 348

RASMUSSEN, FREDERICK A.

LIFE SCIENCE TEST, TOPIC IV

EDUCATIONAL RESEARCH COUNCIL OF AMERICA, CLEVELAND, OHIO

25 68 *ATTITUDE TESTS, *BIOLOGICAL SCIENCES, *EVALUATION, *SECONDARY SCHOOL SCIENCE CONSERVATION, ESSAY TESTS, STUDENT ATTITUDES, TESTS

04 93 17 1 SE 005 469 90.

ROTHMAN, ARTHUR I.

RESPONSES TO SCIENCE CONCEPTS ON A SEMANTIC DIFFERENTIAL INSTRUMENT AND ACHIEVEMENT IN FRESHMEN PHYSICS AND CHEMISTRY

JOURNAL OF RESEARCH IN SCIENCE TEACHING

*ACHIEVEMENT, *CHEMISTRY, *COLLEGE SCIENCE, *PREDICTION, *PHYSICS, *SCIENTIFIC CONCEPTS, ATTITUDES, COLLEGE STUDENTS, EVALUATION, FRESHMAN, RESEARCH REPORTS, HARVARD PROJECT PHYSICS, REGENTS SCHOLARSHIP EXAMINATION, MULTIDIMENSIONAL ACHIEVEMENT ORIENTATION SCALE

04 09 12 1 SE 005 251 91.

RUSSELL, RAYMOND B.

EVERY PUPIL SCHOLARSHIP TEST - BUSINESS ARITHMETIC

KANSAS STATE TEACHERS COLLEGE, EMPORIA, BUREAU OF EDUCATIONAL MEASUREMENTS

04 14 65 *ARITHMETIC, *MATHEMATICS, *SECONDARY SCHOOL MATHEMATICS, ACHIEVEMENT TESTS, ACHIEVEMENT, BUSINESS, MATHEMATICAL CONCEPTS, NUMBER CONCEPTS, TESTS, 1965

04 33 20 1 SE 004 410 92.

SCHWENDEMAN, R. H.

STANDARDIZATION OF GRADES IN MULTI-SECTION COURSES

JOURNAL OF CHEMICAL EDUCATION

02 00 68 *ACADEMIC ACHIEVEMENT, *COLLEGE SCIENCE, *CHEMISTRY, *EVALUATION, *GRADING, UNDERGRADUATE STUDY

04 33 22 1 SE 004 538 93.

SHUGART, C. G.

A COURSE AND TEACHER EVALUATION

THE PHYSICS TEACHER

04 00 68

*COLLEGE SCIENCE, *EVALUATION, *PHYSICS, *TEACHER EVALUATION, *TEACHER CHARACTERISTICS, PHYSICAL SCIENCES



SE 004 075 94.

3

04 12 17

SIMONS, HARRY A.

THE CONSTRUCTION AND EVALUATION OF HIGH SCHOOL BIOLOGY UNIT TESTS NEW YORK UNIVERSITY, NEW YORK

UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN

NOT AVAILABLE FROM EDRS ED 025 404

230

*BIOLOGY, *EVALUATION, *SECONDARY SCHOOL SCIENCE, *TEST CONSTRUCTION, DOCTORAL THESES, TESTS, THE SIMON TEST

SE 004 940 95.

04 85 22

SMITH, HERBERT A.

INSTITUTE ON EVALUATION FOR SCIENCE PROGRAMS

NATIONAL SCIENCE TEACHERS ASSOCIATION, WASHINGTON, D.C.

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HC \$6.00 MF \$0.50 ED 024 573

118

*EVALUATION, *MODELS, *SCIENCE PROGRAMS, EDUCATIONAL PROGRAMS, INSTITUTES, PROGRAM DESCRIPTIONS, SUPERVISORS, SCIENCE INSTITUTES, NATIONAL SCIENCE TEACHERS ASSOCIATION, NATIONAL SCIENCE FOUNDATION, ASSOCIATION FOR THE EDUCATION OF TEACHERS OF SCIENCE, UNITED STATES OFFICE OF EDUCATION, SEMANTIC-DIFFERENTIAL SCALE

96. SE 004 213

04 86 20

SOAR, ROBERT S.

NEW DEVELOPMENTS IN EFFECTIVE TEACHING

THE AMERICAN BIOLOGY TEACHER

5

*EVALUATION, *EFFECTIVE TEACHING, *TEACHER EDUCATION, CLASSROOM RESEARCH, EVALUATION, EVALUATION TECHNIQUES, INTERACTION PROCESS ANALYSIS, PAPERS, TEACHER BEHAVIOR, VERBAL BEHAVIOR

97. SE 005 270

04 09 12

SPEER, ROBERT K.; SMITH, SAMUEL

ARITHMETIC TEST, NATIONAL ACHIEVEMENT TESTS, SPECIMEN KIT

ACORN PUBLISHING COMPANY, ROCKVILLE CENTRE, NEW YORK

*ACHIEVEMENT TESTS, *ARITHMETIC, *EVALUATION, *TESTS, ELEMENTARY SCHOOL MATHEMATICS, GRADE 6, GRADE 7, GRADE 8, MATHEMATICAL CONCEPTS, MULTIPLE CHOICE TESTS

SE 005 272 98.

04 25 12

SPEER, ROBERT K.; SMITH, SAMUEL

GENERAL SCIENCE TEST, NATIONAL ACHIEVEMENT TESTS SPECIMEN KIT

ACORN PUBLISHING COMPANY, ROCKVILLE CENTRE, NEW YORK

12 58

*ACHIEVEMENT TESTS, *CHEMISTRY, *COLLEGE SCIENCE, *EVALUATION, *SECONDARY SCHOOL SCIENCE, MULTIPLE CHOICE TESTS, SCIENCE TESTS, TESTS, TEST INTERPRETATION, 1966



99. SE 005 248

1

04 09 12

STIBAL, WILLARD O.

EVERY PUPIL ACHIEVEMENT TEST - ARITHMETIC GRADES IV-VI KANSAS STATE TEACHERS COLLEGE, EMPORIA, BUREAU OF EDUCATIONAL RESEARCH 01 00 68 4

*ELEMENTARY SCHOOL MATHEMATICS, *MATHEMATICS, ACHIEVEMENT TESTS, ACHIEVEMENT, ARITHMETIC, GRADE 4, GRADE 5, GRADE 6, MATHEMATICAL CONCEPTS, NUMBER CONCEPTS, TESTS, 1968

100. SE 004 055

3

04 72 17

STICKNEY, ROLAND F.

THE CONSTRUCTION OF A SCIENCE TEST FOR NINTH-GRADE ALASKA NATIVES BOSTON UNIVERSITY, MASSACHUSETTS, SCHOOL OF EDUCATION UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN

ED 023 573

NOT AVAILABLE FROM EDRS

66 173

*ACHIEVEMENT TESTS, *EVALUATION, *GENERAL SCIENCE, *SECONDARY SCHOOL SCIENCE, *TEST CONSTRUCTION, DOCTORAL THESES, GRADE 9, LANGUAGE HANDICAPS, MULTIPLE CHOICE TESTS, RESEARCH REPORTS, ALASKA, BUREAU OF INDIAN AFFAIRS, ESKIMOS, ALEUTS, INDIANS, 1966

101. SE 004 809

3

04 83 17

TAYLOR, CALVIN W.; AND OTHERS

BIOGRAPHICAL INFORMATION AND THE PREDICTION OF MULTIPLE CRITERIA OF SUCCESS IN SCIENCE

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, WASHINGTON, D.C.

EDRS

ED 020 148

MF \$0.50 HC \$6.25

02 00 66 123

*COLLEGE STUDENTS, *CREATIVITY, *SCIENTIFIC MANPOWER, *TALENT IDENTIFICATION, CAREERS, MULTIPLE CHOICE TESTS, PREDICTION, RESEARCH, RESEARCH METHODOLOGY, SECONDARY SCHOOL STUDENTS, RESEARCH REPORTS, NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, CREATIVITY, CHECK LIST, CREATIVITY RATING SCALE

102. SE 004 049

3

04 83 17

TILLERY, BILL

IMPROVEMENT OF SCIENCE EDUCATION METHODS COURSES THROUGH STUDENT SELF-EVALUATION COLORADO STATE COLLEGE, GREELEY

UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN

ED 021 719 NOT AVAILABLE FROM EDRS

67 134

*EVALUATION, *METHODS COURSES, *SELF EVALUATION, *TEACHER EDUCATION, COLLEGE STUDENTS, DOCTORAL THESES, ELEMENTARY SCHOOL SCIENCE, RESEARCH REPORTS, COLORADO STATE COLLEGE, STUDENT EVALUATION OF ACHIEVEMENT, 1967

103. SE 004 903 3 04 12 12

TRIEZENBERG, HENRY J.

TESTING FOR CONCEPTS OF ECOLOGICAL SYSTEMS

UNIVERSITY OF WISCONSIN, MADISON, RESEARCH AND DEVELOPMENT CENTER

EDRS

ED 020 906 MF \$0.25 HC \$2.85

01 11 68 55

*COGNITIVE TESTS, *ELEMENTARY SCHOOL SCIENCE, *ECOLOGY, EVALUATION, SECONDARY SCHOOL SCIENCE, SCIENCE TESTS, TESTS, BIOLOGICAL SCIENCES, MULTIPLE CHOICE TESTS, SCIENCE CONCEPT LEARNING PROJECT

104. SE 004 241 3 04 12 12

TURNER GEORGE C.; HETTICK VERGIL

A PORTFOLIO OF BSCS TEST ITEMS FOR CHAPTERS IN BIOLOGICAL SCIENCE - AN INQUIRY INTO LIFE

CALIFORNIA STATE COLLEGE, FULLERTON

EDRS

ED 018 371 MF \$1.25 HC \$16.95

67 337

*ACHIEVEMENT TESTS, *BIOLOGY, *EVALUATION, *MULTIPLE CHOICE TESTS, *OBJECTIVE TESTS, *SECONDARY SCHOOL SCIENCE, *SCIENCE TESTS, *TEST CONSTRUCTION, TESTS, BIOLOGICAL SCIENCES CURRICULUM STUDY, YELLOW VERSION

105. SE 004 073 2 04 82 17

VITROGEN, DAVID

A METHOD FOR DETERMINING A GENERALIZED ATTITUDE OF HIGH SCHOOL STUDENTS TOWARD SCIENCE

NEW YORK UNIVERSITY

UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN

65 258

*EVALUATION, *SECONDARY SCHOOL SCIENCE, *STUDENT ATTITUDES, ATTITUDE SCALES, DOCTORAL THESES, RESEARCH REPORTS, STUDENT CHARACTERISTICS, STUDENT SCIENCE INTERESTS, IOWA TESTS OF EDUCATIONAL DEVELOPMENT, KUDER PREFERENCE FORM-VOCATIONAL, SCIENCE TEACHER'S RATING SCALE, 1965



106. SE 004 181 2 04 32 17

WALBERG, HERBERT J.; WELCH, WAYNE W.
A NEW USE OF RANDOMIZATION IN EXPERIMENTAL CURRICULUM EVALUATION HARVARD UNIVERSITY, CAMBRIDGE, MASSACHUSETTS

67 16

*CURRICULUM EVALUATION, *EVALUATION, *PHYSICS, *RESEARCH METHODOLOGY, *TESTING PROGRAMS, ACADEMIC ACHIEVEMENT, COMPUTERS, SECONDARY SCHOOL SCIENCE, STUDENT INTEREST, SCIENCE COURSE IMPROVEMENT PROJECT, TESTING, HARVARD PROJECT PHYSICS, WELCH SCIENCE PROCESS INVENTORY, SEMANTIC DIFFERENTIAL AND PUPIL ACTIVITY INVENTORY, TEST ON UNDERGRADUATE SCIENCE

SE 005 274 1 04 09 12

WEBB, RAY; HLAVATY, JULIUS H.

FIRST YEAR ALGEBRA TEST, NATIONAL ACHIEVEMENT TESTS SPECIMEN KIT

ACORN PUBLISHING COMPANY, ROCKVILLE CENTRE, NEW YORK 62 20

*ACHIEVEMENT TESTS, *ALGEBRA, *MATHEMATICS, *MATHEMATICAL CONCEPTS, *SECONDARY SCHOOL MATHEMATICS, *TESTS

108. SE 005 275 1 04 09 12

WEBB, RAY; HLAVATY, JULIUS H.

PLANE GEOMETRY, NATIONAL ACHIEVEMENT TESTS SPECIMEN KIT

ACORN PUBLISHING COMPANY, ROCKVILLE CENTRE, NEW YORK

60 20

*ACHIEVEMENT TESTS, *EVALUATION, *GEOMETRY, *MATHEMATICS, *MATHEMATICAL CONCEPTS, *MULTIPLE CHOICE TESTS, *PLANE GEOMETRY, *TESTS

109. SE 005 662 1 04 95 20

WELCH, WAYNE W.

107.

CURRICULAR DECISIONS - HOW CAN EVALUATION ASSIST SCIENCE TEACHERS?

THE SCIENCE TEACHER

11 00 68 4

*CURRICULUM EVALUATION, *EVALUATION, *ELEMENTARY SCHOOL SCIENCE, *SECONDARY SCHOOL SCIENCE, CURRICULUM DEVELOPMENT, SCIENCE COURSE IMPROVEMENT PROJECT, SCIENCE TEACHERS, CHEMICAL EDUCATION MATERIALS STUDY, CHEMICAL BOND APPROACH, PHYSICAL SCIENCE STUDY COMMITTEE, HARVARD PROJECT PHYSICS, ENGINEERING CONCEPTS CURRICULUM PROJECT, BIOLOGICAL SCIENCES CURRICULUM STUDY, AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, 1968



110. SE 005 691

3

04 32 03

WELCH, WAYNE W.

RESEARCH AND EVALUATION BIBLIOGRAPHY

HARVARD PROJECT PHYSICS

EDRS

ED 025 424 MF \$0.25 HC \$0.36

11 00 68 7

*BIBLIOGRAPHIES, *CURRICULUM DEVELOPMENT, *EVALUATION, *PHYSICS, *SECONDARY SCHOOL SCIENCE, RESEARCH, SCIENCE COURSE IMPROVEMENT PROJECT, HARVARD PROJECT PHYSICS

111. SE 004 178

2

04 32 20

WELCH, WAYNE W.; AND OTHERS

THE SELECTION OF A NATIONAL RANDOM SAMPLE OF TEACHERS FOR EXPERIMENTAL CURRICULUM EVALUATION

HARVARD UNIVERSITY, CAMBRIDGE, MASSACHUSETTS

11 00 67 14

*CURRICULUM EVALUATION, *EVALUATION, *PHYSICS, *SECONDARY SCHOOL SCIENCE, CURRICULUM DEVELOPMENT SCIENCE TEACHERS, TEACHER SELECTION, HARVARD PROJECT PHYSICS, NATIONAL SCIENCE TEACHERS ASSOCIATION, 1967

112. SE 004 391

1

04 82 17

WELCH, WAYNE W.; PELLA, MILTON O.

THE DEVELOPMENT OF AN INSTRUMENT FOR INVENTORYING KNOWLEDGE OF THE PROCESSES OF SCIENCE

JOURNAL OF RESEARCH IN SCIENCE TEACHING

68

*EVALUATION, *SECONDARY SCHOOL SCIENCE, *TESTS, RESEARCH REPORTS, SCIENTIFIC ENTERPRISE, SCIENCE TESTS, SCIENTIFIC CONCEPTS, SCIENCE PROCESS INVENTORY, SEQUENTIAL TEST OF EDUCATIONAL PROGRESS

113. SE 004 588

2

04 92 12

WOODBURN, JOHN H.

THE METHODS AND PROCEDURES OF SCIENCE - AN EXAMINATION CHARLES W. WOODWARD HIGH SCHOOL, ROCKVILLE, MARYLAND

67

*EVALUATION, *MULTIPLE CHOICE TESTS, *SCIENCE TESTS, *TESTS, BIOLOGY, OBJECTIVE TESTS, PHYSICAL SCIENCES, SECONDARY SCHOOL SCIENCE

114. SE 004 551

1

08 09 17

YEAGER, JOHN L.; LINDVALL, C. M.

AN EXPLORATORY INVESTIGATION OF SELECTED MEASURES OF RATE OF LEARNING JOURNAL OF EXPERIMENTAL EDUCATION

67 81

*ELEMENTARY SCHOOL MATHEMATICS, *LEARNING, *MEASUREMENT, *STUDENT CHARACTERISTICS, ARITHMETIC, INTELLIGENCE TESTS, MATHEMATICS, READING, STUDENT IMPROVEMENT

115. SE 005 227 1 04 92 12

BUREAU OF EDUCATIONAL MEASUREMENTS - NORMS FOR HIGH SCHOOL ACHIEVEMENT TESTS FROM PREVIOUS TESTING PROGRAMS

KANSAS STATE TEACHERS COLLEGE, EMPORIA

06 00 67 4

*EVALUATION, *GROUP NORMS, *TESTS, ACHIEVEMENT TESTS, ENGLISH, HOME ECONOMICS, SOCIAL STUDIES, SCIENCES, MATHEMATICS, JUNE, 1967

116. SE 004 428 1 04 22 31

CONDENSED NORMS: ACS COOPERATIVE EXAMINATIONS

JOURNAL OF CHEMICAL EDUCATION

04 00 68 2

*CHEMISTRY, *EVALUATION, *ORGANIC CHEMISTRY, *SECONDARY SCHOOL SCIENCE, *STANDARDIZED TESTS, QUALITATIVE ANALYSIS, TESTS, TEST RELIABILITY, TEST NORMS, AMERICAN CHEMICAL SOCIETY COOPERATIVE EXAMINATIONS

117. SE 005 403 1 04 09 12

ERB MATHEMATICS TEST - ANALYTICAL GEOMETRY

EDUCATIONAL RECORDS BUREAU, NEW YORK

61

*ANALYTIC GEOMETRY, *EVALUATION, *MATHEMATICS, *SECONDARY SCHOOL MATHEMATICS, ACHIEVEMENT, ACHIEVEMENT TESTS, GEOMETRY, MATHEMATICAL CONCEPTS, MULTIPLE CHOICE TESTS, TESTS, 1961

118. SE 005 404 1 04 09 12

ERB MATHEMATICS TEST III - PROBABILITY AND STATISTICS

EDUCATIONAL RECORDS BUREAU, NEW YORK

61 6

*ACHIEVEMENT TESTS, *EVALUATION, *MATHEMATICAL CONCEPTS, *PROBABILITY, *STATISTICS, ACHIEVEMENT, MATHEMATICS, MULTIPLE CHOICE TESTS, TESTS, 1961

119. SE 005 037 2 04 91 37

EVALUATING A PROGRAM OF CONSERVATION EDUCATION IN THE ELEMENTARY SCHOOL INTERSTATE PRINTERS AND PUBLISHERS, INC., DANVILLE, ILLINOIS

66 40

*CONSERVATION EDUCATION, *ELEMENTARY SCHOOL SCIENCE, *EVALUATION, *EDUCATIONAL PROGRAMS, CHECK LISTS, ORGANIZATION, PHILOSOPHY, PERSONNEL, CONSERVATION EDUCATION ASSOCIATION, 1966

120. SE 005 398 1 04 95 12

KANSAS STATE TEACHERS COLLEGE, EMPORIA

KANSAS STATE TEACHERS COLLEGE, EMPORIA

01 00 68 14

*EVALUATION, *TEST INTERPRETATION, ACHIEVEMENT TESTS, ARITHMETIC, CHEMISTRY, ELEMENTARY SCHOOLS, ENGLISH, ELEMENTARY SCHOOL SCIENCE, GEOGRAPHY, HEALTH, MATHEMATICS, PHYSICS, SOCIAL STUDIES, SCIENCES, 1968



121. SE 005 359

METROPOLITAN ACHIEVEMENT TESTS, ADVANCED ARITHMETIC TEST, EXAMINER'S KIT WORLD BOOK COMPANY, NEW YORK, NEW YORK

59 15

*ARITHMETIC, *ELEMENTARY SCHOOL MATHEMATICS, *EVALUATION, *MATHEMATICS, ACHIEVEMENT, ACHIEVEMENT TESTS, MATHEMATICAL CONCEPTS, MULTIPLE CHOICE TESTS, TESTS

122. SE 005 361 1 04 09 12

METROPOLITAN ACHIEVEMENT TESTS, ELEMENTARY ARITHMETIC TEST, EXAMINER'S KIT

HARCOURT, BRACE AND WORLD, INC., NEW YORK, NEW YORK

59 15

*ARITHMETIC, *ELEMENTARY SCHOOL MATHEMATICS, *EVALUATION, *MATHEMATICS, ACHIEVEMENT, ACHIEVEMENT TESTS, MATHEMATICAL CONCEPTS, MULTIPLE CHOICE TESTS, TESTS

123. SE 005 362

METROPOLITAN ACHIEVEMENT TESTS, HIGH SCHOOL BATTERY--MATHEMATICS, SPECIMEN SET HARCOURT, BRACE AND WORLD, INC., NEW YORK, NEW YORK

63

37

*ARITHMETIC, *MATHEMATICS, *SECONDARY SCHOOL MATHEMATICS, ACHIEVEMENT, ACHIEVEMENT TESTS, GEOMETRY, MATHEMATICAL CONCEPTS, MULTIPLE CHOICE TESTS, TESTS

124. SE 005 360 1 04 09 12

METROPOLITAN ACHIEVEMENT TESTS, INTERMEDIATE ARITHMETIC TEST, EXAMINER'S KIT

HARCOURT, BRACE AND WORLD, INC., NEW YORK, NEW YORK

59 15

*ARITHMETIC, *ELEMENTARY SCHOOL MATHEMATICS, *EVALUATION, *MATHEMATICS,

ACHIEVEMENT, ACHIEVEMENT TESTS, MATHEMATICAL CONCEPTS, MULTIPLE CHOICE TESTS, TESTS

125. SE 005 375

10WA TESTS OF EDUCATIONAL DEVELOPMENT GRADES 9 THROUGH 12, SPECIMEN SET SCIENCE RESEARCH ASSOCIATES, INC., CHICAGO, ILLINOIS

62

*ACHIEVEMENT TESTS, *EVALUATION, *TESTS, EDUCATIONAL TESTING, MATHEMATICS, READING, SCIENCE, SPECIAL PROGRAMS

126. SE 004 748 1 04 32 12
PHYSICAL SCIENCE STUDY COMMITTEE, NO. 986, FORM F - FINAL TEST
PHYSICAL SCIENCE STUDY COMMITTEE
EDUCATIONAL TESTING SERVICE

*EVALUATION, *PHYSICS, *SECONDARY SCHOOL SCIENCE, *TESTS, ACCELERATION, ELECTRICITY, MECHANICS, MOTION, OPTICS, PHYSICAL SCIENCES, PHYSICAL SCIENCE STUDY COMMITTEE, EDUCATIONAL TESTING SERVICE



127. SE 004 747 1 04 32 12

PHYSICAL SCIENCE STUDY COMMITTEE ADVANCED TOPICS SPECIMEN SET, NO. 987 - TESTS OF THE PHYSICAL SCIENCE COMMISSION PHYSICAL SCIENCE STUDY COMMITTEE FDUCATIONAL TESTING SERVICES

40

*EVALUATION, *PHYSICS, *SECONDARY SCHOOL SCIENCE, *TESTS, ATOMIC THEORY, NUCLEAR PHYSICS, PHYSICAL SCIENCES, PHYSICAL SCIENCE STUDY COMMITTEE, EDUCATIONAL TESTING SERVICE

128. SE 004 750 1 04 32 12

PHYSICAL SCIENCE STUDY COMMITTEE SPECIMEN SET, NO. 969 - TESTS OF THE PHYSICAL SCIENCE PHYSICS COURSE

PHYSICAL SCIENCE STUDY COMMITTEE

EDUCATIONAL TESTING SERVICE

122

*EVALUATION, *PHYSICS, *SECONDARY SCHOOL SCIENCE, *TESTS, ELECTRICITY, ENERGY, FORCE, LIGHT, MATTER, MOTION, PHYSICAL SCIENCES, PHYSICAL SCIENCE STUDY COMMITTEE

129. SE 004 749 1 04 32 12

PHYSICAL SCIENCE STUDY COMMITTEE SPECIMEN SET, NO. 988, FORM N - TESTS OF THE PHYSICAL SCIENCE PHYSICS COURSE PHYSICAL SCIENCE STUDY COMMITTEE

EDUCATIONAL TESTING SERVICE

*EVALUATION, *PHYSICS, *SECONDARY SCHOOL SCIENCE, *TESTS, ENERGY, ELECTRICITY, MOMENTUM, LIGHT, MATTER, MOTION, PHYSICAL SCIENCES, WAVE MOTION, PHYSICAL SCIENCE STUDY COMMITTEE, EDUCATIONAL TESTING SERVICE

130. SE 005 269 1 04 09 12

PLANE TRIGONOMETRY, NATIONAL ACHIEVEMENT TESTS SPECIMEN KIT ACORN PUBLISHING COMPANY, ROCKVILLE CENTRE, NEW YORK

59 20

*ACHIEVEMENT TESTS, *COLLEGE MATHEMATICS, *EVALUATION, *SECONDARY SCHOOL MATHEMATICS, *TRIGONOMETRY, GRADE 10, GRADE 11, GRADE 12, MATHEMATICS, MATHEMATICAL CONCEPTS, MULTIPLE CHOICE TESTS, TESTS

131. SE 005 050 3 04 95 03

SCIENCE EDUCATION INFORMATION REPORT, GENERAL BIBLIOGRAPHY SERIES 9, EVALUATION, EDUCATIONAL OBJECTIVES, LEARNING THEORIES AND PROCESSES, RESEARCH METHODOLOGY ERIC INFORMATION ANALYSIS CENTER FOR SCIENCE EDUCATION, COLUMBUS, OHIO EDRS

ED 021 774 MF \$0.25 HC \$1.75

68 33

*EDUCATIONAL RESEARCH, *EVALUATION, *EDUCATIONAL OBJECTIVES, *LEARNING, *SCIENCE EDUCATION, ACHIEVEMENT, COGNITIVE DEVELOPMENT, CONCEPT FORMATION, CREATIVITY, COLLEGE SCIENCE, CRITICAL THINKING, DOCTORAL THESES, ELEMENTARY SCHOOL SCIENCE, INTERACTION PROCESS ANALYSIS, PROBLEM SOLVING, RESEARCH METHODOLOGY, SECONDARY SCHOOL SCIENCE, TESTS, TEACHER EDUCATION



04 09 12 SE 005 268 132. SOLID GEOMETRY TEST, NATIONAL ACHTEVEMENT TESTS SPECIMEN KIT ACORN PUBLISHING COMPANY, ROCKVILLE CENTRE, NEW YORK *EVALUATION, *MATHEMATICS, ACHIEVEMENT, ACHIEVEMENT TESTS, GEOMETRY, MATHEMATICAL

CONCEPTS, MULTIPLE CHOICE TESTS, SOLID GEOMETRY TESTS 04 91 12

SE 005 373 133. SRA ACHIEVEMENT SERIES GRADES 1 THROUGH 4 SPECIMEN SET SCIENCE RESEARCH ASSOCIATES, INC., CHICAGO, ILLINOIS *ACHIEVEMENT TESTS, *TESTS, ARITHMETIC, ELEMENTARY EDUCATION, GRADE 1, GRADE 2, GRADE 3, GRADE 4, LANGUAGE ARTS

04 95 12 SE 005 374 134. SRA ACHIEVEMENT SERIES GRADES 4 THROUGH 9 SPECIMEN SET SCIENCE RESEARCH ASSOCIATES, INC., CHICAGO, ILLINOIS *ACHIEVEMENT TESTS, *ELEMENTARY EDUCATION, *EVALUATION, *TESTS, *SECONDARY EDUCATION, ARITHMETIC, LANGUAGE ARTS, MATHEMATICS, READING, SCIENCES, SOCIAL STUDIES

04 09 22 3 135. SE 004 627 TEACHERS EVALUATE PROGRAMMED INSTRUCTION, A SURVEY OF ATTITUDES AND PROBLEMS CANADIAN TEACHERS' FEDERATION, OTTAWA, ONTARIO **EDRS** HC \$3.30 MF \$0.50 ED 021 735 64 *CURRICULUM, *EVALUATION, *PROGRAMED INSTRUCTION, LEARNING, MATHEMATICS, PROGRAM EFFECTIVENESS, RESEARCH, TEACHER EVALUATION

04 35 20 1 SE 004 708 136. TWO EXAMINATIONS PLANNED FOR ADVANCED PLACEMENT PHYSICS THE PHYSICS TEACHER 05 00 68 *ADVANCED PLACEMENT, *COLLEGE SCIENCE, *EVALUATION, *PHYSICS, *SECONDARY SCHOOL SCIENCE, ENGINEERING, TESTS, COLLEGE ENTRANCE EXAMINATIONS BOARD, EDUCATIONAL TESTING SERVICE

B. EDUCATIONAL OBJECTIVES

1. SE 004 761

1

09 86 20

ATKIN, J. MYRON

BEHAVIORAL OBJECTIVES IN CURRICULUM DESIGN - A CAUTIONARY NOTE

THE SCIENCE TEACHER

05 00 68 4

*BEHAVIORAL OBJECTIVES, *CURRICULUM PLANNING, *LEARNING, OBJECTIVES, RESEARCH, NEW YORK STATE REGENTS EXAMINATIONS, AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

2. SE 005 103

1

09 93 17

BARBEROUSSE, EUELL ROBERT

A STUDY OF GENERAL EDUCATION OBJECTIVES IN SELECTED AREAS OF THE NATURAL SCIENCES AND MATHEMATICS

AUBURN UNIVERSITY, ALABAMA

UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN

66 354

*COLLEGE SCIENCE, *EDUCATIONAL OBJECTIVES, *GENERAL EDUCATION, *NATURAL SCIENCES, *SCIENCES, ATTITUDES, COLLEGE FACULTY, DOCTORAL THESES, LITERATURE, MATHEMATICS, RESEARCH REPORTS, AUBURN UNIVERSITY, 1966

3. SE 004 818

3

09 82 18

BARNARD, J. DARRELL

TEACHING HIGH SCHOOL SCIENCE

AMERICAN EDUCATIONAL RESEARCH ASSOCIATION, WASHINGTON, D.C.

EDRS

ED 020 151 MF \$0.25

56 36

*EDUCATIONAL OBJECTIVES, *EVALUATION, *INSTRUCTION, AUDIOVISUAL AIDS, CURRICULUM PLANNING, CRITICAL THINKING, INSTRUCTIONAL MATERIALS, LEARNING, PROBLEM SOLVING, RESEARCH REVIEWS (PUBLICATIONS), SCIENCE EDUCATION, SECONDARY SCHOOL SCIENCE, TEACHING METHODS, TEACHER QUALIFICATIONS, TEACHER EDUCATION, NATIONAL EDUCATION ASSOCIATION, AMERICAN EDUCATIONAL RESEARCH ASSOCIATION

4. SE 004 817

3

09 81 18

CRAIG, GERALD S.

SCIENCE IN THE ELEMENTARY SCHOOLS

AMERICAN EDUCATIONAL RESEARCH ASSOCIATION, WASHINGTON, D.C.

EDRS

ED 020 150 MF \$0.25 HARD COPY NOT AVAILABLE

64 36

*ELEMENTARY SCHOOL SCIENCE, *EDUCATIONAL OBJECTIVES, *SCIENCE EDUCATION, CONSERVATION, CURRICULUM PLANNING, CRITICAL THINKING, EVALUATION, HEALTH, LEARNING, PROGRAM CONTENT, RESEARCH REVIEWS (PUBLICATIONS), SCIENCE ACTIVITIES, SLOW LEARNERS, SAFETY, TEACHING METHODS



1

09 43 20

ELLISON, SAMUEL P.

A PHILOSOPHY OF GEOLOGICAL EDUCATION

JOURNAL OF GEOLOGICAL EDUCATION

02 00 66

4

*COLLEGE SCIENCE, *EDUCATIONAL PHILOSOPHY, *GEOLOGY, PAPERS, RESEARCH, SCIENTISTS, TEACHERS, TEACHING, UNDERGRADUATE STUDY

6. SE 004 262

1

09 86 20

GEISERT, PAUL

A COMPUTER MODEL FOR THE SLOW STUDENT

THE SCIENCE TEACHER

04 00 68

*EDUCATIONAL OBJECTIVES, *INSTRUCTION, *SLOW LEARNER, BEHAVIORAL OBJECTIVES, LEARNING, TEACHING TECHNIQUES

7. SE 004 235

1

09 86 20

GOLDBERG, LAZER

THE OPERATIVE CONTENT OF SCIENCE AND VALUES

SCIENCE AND CHILDREN

3

02 00 68

*ATTITUDES, *CREATIVITY, *EDUCATIONAL OBJECTIVES, *ETHICAL VALUES, *VALUES, SCIENTIFIC ATTITUDES

8. SE 005 490

1

09 82 20

HUNGERFORD, HAROLD R.

OBJECTIVES FOR STUDENT PERFORMANCE IN JUNIOR HIGH SCHOOL SCIENCE - A VIEWPOINT. PAPER PRESENTED AT NSTA CONVENTION, 1967

SOUTHERN ILLINOIS UNIVERSITY, CARBONDALE, COLLEGE OF EDUCATION

67 12

*EDUCATIONAL OBJECTIVES, *SECONDARY SCHOOL SCIENCE, GRADE 7, GRADE 8, GRADE 9, SCIENTIFIC LITERACY, SCIENTIFIC ATTITUDES, STUDENT BEHAVIOR, SCIENTIFIC CONCEPTS, 1967

9. SE 004 263

1

09 83 20

IVEY, D. G.

THE NONSCIENCE OF EDUCATION

THE SCIENCE TEACHER

04 00 68

4

*EVALUATION, *EDUCATIONAL OBJECTIVES, *LEARNING, ATTITUDES, INSTRUCTION, LECTURERS, MEASUREMENT, SPEECHES, NATIONAL SCIENCE TEACHERS ASSOCIATION, CANADIAN CENTENNIAL SCIENCE TEACHERS CONFERENCE

10. SE 004 266

1

09 85 20

MONTAGUE, EARL J.; BUTTS, DAVID P.

BEHAVIORAL OBJECTIVES

THE SCIENCE TEACHER

03 00 68

3

*BEHAVIORAL OBJECTIVES, *EDUCATIONAL OBJECTIVES, *INSTRUCTION, *SCIENCE EDUCATION, *SECONDARY SCHOOL SCIENCE, ELEMENTARY SCHOOL SCIENCE

11. SE 005 603

1

09 13 20

NANNEY, DAVID L.

SOME ISSUES IN BIOLOGY TEACHING

BIOSCIENCE

02 00 68

4

*BIOLOGY, *COURSE CONTENT, *COLLEGE SCIENCE, *EDUCATIONAL OBJECTIVES, *INSTRUCTION, CURRICULUM, EDUCATIONAL CHANGE, INDIVIDUAL DIFFERENCES, COMMITTEE ON UNDERGRADUATE EDUCATION IN THE BIOLOGICAL SCIENCES, 1968

12. SE 005 882

2

09 86 20

SKINNER, B. F.

TEACHING SCIENCE IN HIGH SCHOOL - WHAT IS WRONG? PRESENTED AT THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE MEETING, DECEMBER, 1967 HARVARD UNIVERSITY, CAMBRIDGE, MASSACHUSETTS

67 11

*EDUCATIONAL METHODS, *INSTRUCTION, *LEARNING, *PROGRAMED INSTRUCTION, *SCIENCE EDUCATION, EDUCATIONAL THEORY, EDUCATIONAL RESEARCH, SECONDARY SCHOOL SCIENCE, TEACHER EDUCATION, TEACHER CHARACTERISTICS

13. SE 005 602

-1

09 13 20

VANOVERBEEK, J.

BROADER OUTLOOK IN TEACHING THE PLANT SCIENCES

BIOSCIENCE

02 00 68

*BOTANY, *COLLEGE SCIENCE, *EDUCATIONAL OBJECTIVES, *SCIENCE TEACHING, BIOLOGY, GRADUATE STUDY, SOCIOECONOMIC INFLUENCES

14. SE 005 882

2

09 98 20

WEINBERG, ALVIN M.

THE TWO FACES OF SCIENCE

JOURNAL OF CHEMICAL EDUCATION

3

02 00 68

4

*COLLEGE SCIENCE, *EDUCATIONAL OBJECTIVES, *INQUIRY, *PHYSICS, *SCIENCE EDUCATION, *SCIENTIFIC CONCEPTS, BIOLOGY, COLLEGES, CHEMISTRY, NATURE OF SCIENCE

15. SE 004 394

1

09 52 17

WELLIVER, PAUL W.

TELEVISION INSTRUCTION AND THE ATTAINMENT OF OBJECTIVES FOR A NINTH GRADE PHYSICAL SCIENCE COURSE

JOURNAL OF RESEARCH IN SCIENCE TEACHING

68

*EDUCATIONAL OBJECTIVES, *EDUCATIONAL TELEVISION, *INSTRUCTION, *PHYSICAL SCIENCES, *SECONDARY SCHOOL SCIENCE, EDUCATIONAL RESEARCH, GRADE 9, PROBLEM SOLVING, RESEARCH METHODOLOGY, RESEARCH REPORTS, SOCIOECONOMIC INFLUENCES, TEACHING TECHNIQUES, SCIENCE COURSES, TELEVISION, NORTH CAROLINA, TEST ON UNDERSTANDING SCIENCE, SEQUENTIAL TEST OF EDUCATIONAL PROGRESS, THURSTONE INTEREST INVENTORY, 1965



16. SE 005 665 1 09 95 06

NSTA POSITION ON CRITICAL ISSUES CONFRONTING THE SCIENCE TEACHING PROFESSION THE SCIENCE TEACHER

11 00 68 2

*CURRICULUM, *EDUCATIONAL OBJECTIVES, *ISSUES, *PROFESSIONAL ASSOCIATIONS, *SCIENCE TEACHING, CONFERENCE REPORTS, NATURAL RESOURCES, SCIENCE FAIRS, TEACHER RESPONSIBILITY, NATIONAL SCIENCE TEACHERS ASSOCIATION, COMMITTEE ON ISSUES, 1968

SE 004 762 1 09 86 06

THE NSTA CONFERENCES ON SCIENTIFIC LITERACY

THE SCIENCE TEACHER

05 00 68 3

17.

*CONFERENCE REPORTS, *SCIENTIFIC LITERACY, *OBJECTIVES, ATTITUDES, AFFECTIVE DOMAIN, COGNITIVE DOMAIN, BEHAVIORAL OBJECTIVES, GENERAL EDUCATION, SCIENCE COURSES, VALUES, CONFERENCE ON SCIENTIFIC LITERACY, PENNSYLVANIA ACADEMY OF SCIENCES, NATIONAL SUPERVISORS ASSOCIATION, NATIONAL SCIENCE TEACHERS ASSOCIATION

18. SE 005 050 3 09 95 03

SCIENCE EDUCATION INFORMATION REPORT, GENERAL BIBLIOGRAPHY SERIES 9, EVALUATION, EDUCATIONAL OBJECTIVES, LEARNING THEORIES AND PROCESSES, RESEARCH METHODOLOGY ERIC INFORMATION ANALYSIS CENTER FOR SCIENCE EDUCATION, COLUMBUS, OHIO EDRS

ED 021 774 MF \$0.25 HC \$1.75

05 00 68 33

*EDUCATIONAL RESEARCH, *EVALUATION, *EDUCATIONAL OBJECTIVES, *LEARNING, *SCIENCE EDUCATION, ACHIEVEMENT, COGNITIVE DEVELOPMENT, CONCEPT FORMATION, CREATIVITY, COLLEGE SCIENCE, CRITICAL THINKING, DOCTORAL THESES, ELEMENTARY SCHOOL SCIENCE, INTERACTION PROCESS ANALYSIS, PROBLEM SOLVING, RESEARCH METHODOLOGY, SECONDARY SCHOOL SCIENCE, TESTS, TEACHER EDUCATION

19. SE 004 805 3 09 93 06

STEPS TOWARD SCIENTIFIC LITERACY, A REPORT OF COLLEGE-LEVEL CONFERENCES ON SCIENCE FOR NONSCIENCE MAJORS 1967-68

NATIONAL SCIENCE TEACHERS ASSOCIATION, WASHINGTON, D.C.

EDRS

ED 020 144 MF \$0.25 HC \$1.40

68 26

*BIOLOGY, *BEHAVIORAL OBJECTIVES, *CONFERENCE REPORTS, *COLLEGE SCIENCE,
*EDUCATIONAL PROGRAMS, *EDUCATIONAL OBJECTIVES, *GENERAL EDUCATION, *UNDERGRADUATE
STUDY, COURSE DESCRIPTIONS, CHEMISTRY, ELEMENTARY SCHOOL SCIENCE, HIGHER EDUCATION,
PHYSICAL SCIENCES, SCIENCE EDUCATION, TEACHER EDUCATION



C. LEARNING THEORIES AND PROCESSES

1. SE 005 433

1

08 09 31

ALLANSON, J. T.

MATHEMATICS FOR THE MAJORITY

JOURNAL OF BIOLOGICAL EDUCATION

06 00 68

7

*ARITHMETIC, *COMPUTER ORIENTED PROGRAMS, *EDUCATIONAL PROGRAMS, *GENERAL EDUCATION, *MATHEMATICS, APTITUDE, CURRICULUM DEVELOPMENT, STUDENT INTERESTS

2. SE 004 385

1

08 22 20

ATWOOD, RONALD K.

A COGNITIVE PREFERENCE EXAMINATION USING CHEMISTRY CONTENT

JOURNAL OF RESEARCH IN SCIENCE TEACHING

68 ²

*COGNITIVE PROCESSES, *ELEMENTARY SCHOOL SCIENCE, *LEARNING, *PERCEPTION,

*SECONDARY SCHOOL SCIENCE, RESEARCH REPORTS, PIAGET

3. SE 005 971

3

08 01 17

BOZARTH, JAMES OLIVER

THE ABILITY TO CONSERVE QUANTITY OF LIQUID AND ITS RELATIONSHIP TO SOCIOECONOMIC BACKGROUND, INTELLIGENCE, AND ACHIEVEMENT AMONG SELECTED FOURTH GRADE PUPILS UNIVERSITY OF ARIZONA, TUCSON

UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN

ED 026 266 NOT AVAILABLE FROM EDRS

68

112

*ACHIEVEMENT, *CONCEPT FORMATION, *ELEMENTARY SCHOOL SCIENCE, *LEARNING,
*SOCIOECONOMIC BACKGROUND, DOCTORAL THESES, GRADE 4, INTELLIGENCE, SOCIOECONOMIC
INFLUENCE, STUDENT CHARACTERISTICS, METROPOLITAN ACHIEVEMENT TEST, LORGE-THORNDIKE
INTELLIGENCE TEST, STANFORD ACHIEVEMENT TEST, PLAGET CONSERVATION TESTS

4. SE 004 023

3

08 31 17

BRUDZYNSKI, ALFRED JOHN

A COMPARATIVE STUDY OF TWO METHODS FOR TEACHING ELECTRICITY AND MAGNETISM WITH FIFTH AND SIXTH GRADE CHILDREN

BOSTON UNIVERSITY, MASSACHUSETTS, SCHOOL OF EDUCATION

UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN

ED 021 708 NOT AVAILABLE FROM EDRS

66 230

*ACHIEVEMENT, *SCIENTIFIC CONCEPTS, *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTION, DOCTORAL THESES, DEDUCTIVE METHODS, ELECTRICITY, GRADE 5, GRADE 6, INDUCTIVE METHODS, LEARNING, MAGNETS, PHYSICAL SCIENCES, RESEARCH REPORTS, RETENTION, TEACHING METHODS, TEACHING TECHNIQUES, MASSACHUSETTS, SALEM, 1966



5. SE 004 159 2

08 86 11

BRUNER, JEROME S.

THE PROCESS OF EDUCATION

HARVARD UNIVERSITY PRESS, CAMBRIDGE, MASSACHUSETTS

66 97

*COGNITIVE PROCESSES, *HUMANITIES, *LEARNING, *SCIENCE, CURRICULUM DEVELOPMENT, LEARNING READINESS, PSYCHOLOGY, WOODS HOLE CONFERENCE, NATIONAL ACADEMY OF SCIENCES, AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, CARNEGIE CORPORATION OF NEW YORK, NATIONAL SCIENCE FOUNDATION, RAND CORPORATION, 1959

6. SE 005 106 3 08 75 17

BRUSINI, JOSEPH ANTHONY

AN EXPERIMENTAL STUDY OF THE DEVELOPMENT OF SCIENCE CONTINUA CONCEPTS IN UPPER ELEMENTARY AND JUNIOR HIGH SCHOOL CHILDREN NORTHWESTERN UNIVERSITY, EVANSTON, ILLINOIS UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN

ED 026 246 NOT AVAILABLE FROM EDRS

66 125

*CONCEPT FORMATION, *ELEMENTARY SCHOOL SCIENCE, *EARTH SCIENCE, *SECONDARY SCHOOL SCIENCE, *SCIENTIFIC CONCEPTS, CONCEPTUAL SCHEMES, DOCTORAL THESES, ELEMENTARY SCHOOL STUDENTS, STUDENT CHARACTERISTICS

7. SE 004 081 2 08 01 17

CAREY, RUSSELL L.

RELATIONSHIP BETWEEN LEVELS OF MATURITY AND LEVELS OF UNDERSTANDING OF SELECTED CONCEPTS OF THE PARTICLE NATURE OF MATTER

UNIVERSITY OF WISCONSIN

UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN

67 265

*CONCEPT FORMATION, *COGNITIVE PROCESSES, *ELEMENTARY SCHOOL SCIENCE, *LEARNING, *SCIENTIFIC CONCEPTS, ATOMIC THEORY, CONCEPTUAL SCHEMES, DOCTORAL THESES, GRADE 2, GRADE 3, GRADE 4, GRADE 5, RESEARCH REPORTS

8. SE 004 431 3 08 91 17

CAREY, RUSSELL L.

RELATIONSHIP BETWEEN LEVELS OF MATURITY AND LEVELS OF UNDERSTANDING OF SELECTED CONCEPTS OF THE PARTICLE NATURE OF MATTER

UNIVERSITY OF WISCONSIN, MADISON, RESEARCH AND DEVELOPMENT CENTER EDRS

ED 020 131 MF \$0.50 HC \$4.20

01 00 68 82

*CONCEPT FORMATION, *CHEMISTRY, *COGNITIVE PROCESSES, *ELEMENTARY SCHOOL SCIENCE, *PHYSICAL SCIENCES, *SCIENTIFIC CONCEPTS, BIBLIOGRAPHIES, GENERAL SCIENCE, INSTRUCTION, LEARNING, RESEARCH REPORTS



9. SE 005 341 1 08 86 25

CASSILETH, BARRIE

REVIEW OF CONCEPTS AND LITERATURE ON CONTINGENCY MANAGEMENT
HUMAN RESOURCES RESEARCH OFFICE, GEORGE WASHINGTON UNIVERSITY, ALEXANDRIA, VIRGINIA
06 00 68 11

*LEARNING THEORIES, BEHAVIOR, CONDITIONED RESPONSE, INDIVIDUAL DIFFERENCES, REINFORCEMENT, RESEARCH REVIEWS, HUMAN RESOURCES RESEARCH OFFICE, GEORGE WASHINGTON UNIVERSITY, DEPARTMENT OF THE ARMY, 1968

10. SE 004 495 1 08 80 17

COHEN, MIRIAM; AND OTHERS

EXTINCTION IN DISCRIMINATION LEARNING - PRESENTATION AND CONTINGENCY VARIABLES AND ASSOCIATED SIDE AFFECTS

UNIVERSITY OF PITTSBURGH, PENNSYLVANIA, LEARNING RESEARCH AND DEVELOPMENT CENTER 02 00 68 34

*DISCRIMINATION LEARNING, *KINDERGARTEN, EXTINCTION, LEARNING, RESEARCH REPORTS, UNITED STATES OFFICE OF EDUCATION

11. SE 004 662 1 08 13 17

DWYER, FRANCIS, M.

THE EFFECTIVENESS OF SELECTED VISUAL ILLUSTRATIONS IN TEACHING SCIENCE CONCEPTS TO COLLEGE FRESHMEN

JOURNAL OF EDUCATIONAL RESEARCH

04 00 68 5

*COLLEGE SCIENCE, *INSTRUCTIONAL MATERIALS, *INSTRUCTION, *LEARNING, *VISUAL LEARNING, AUDIOVISUAL AIDS, BIOLOGY, RESEARCH REPORTS, VERBAL LEARNING, 1968

12. SE 005 118 3 08 81 17

DYASI, HUBERT MONGAMELI

AN EXPLORATORY INVESTIGATION OF CERTAIN AFFECTIVE BEHAVIORS ASSOCIATED WITH THE LEARNING OF SCIENCE

UNIVERSITY OF ILLINOIS, URBANA

UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN

ED 026 248 NOT AVAILABLE FROM EDRS

66 127

*ABLE STUDENTS, *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTION, *LEARNING, *STUDENT BEHAVIOR, DOCTORAL THESES, SCIENCE COURSES, STUDENT CHARACTERISTICS



3

08 91 17

DYRIL, ODVARD EGIL

AN INVESTIGATION INTO THE DEVELOPMENT OF COMBINATORIAL MECHANISMS CHARACTERISTIC OF FORMAL REASONING, THROUGH EXPERIMENTAL PROBLEM SITUATIONS WITH SIXTH-GRADE STUDENTS

INDIANA UNIVERSITY, BLOOMINGTON

UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN

ED 021 722 NOT AVAILABLE FROM EDRS

67 140

*CONCEPT FORMATION, *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTION, *LEARNING THEORIES, COGNITIVE DEVELOPMENT, DOCTORAL THESES, GRADE 6, NONVERBAL LEARNING, PROBLEM SOLVING, PERFORMANCE TESTS, TEST CONSTRUCTION, VERBAL TESTS, RESEARCH REPORTS, COMBINATORIAL VERBAL, WRITTEN, AND MANIPULATIVE TEST, PIAGET, 1967

14. SE 005 385

1

08 09 17

GILL, NEWELL T.; AND OTHERS

THE ELECTRONIC CALCULATOR AND ITS EFFECT ON MATH PROFICIENCY AND ATTITUDES IN SIXTH GRADE BOYS

FLORIDA ATLANTIC UNIVERSITY, BOCA RATON, FLORIDA

3

*ATTITUDES, *ACHIEVEMENT, *ELEMENTARY SCHOOL MATHEMATICS, *LEARNING, *MATHEMATICS, *STUDENT ATTITUDES, ELECTRONICS, GRADE 6

15. SE 004 001

3

08 86 18

GLASER, ROBERT

CONCEPT LEARNING AND CONCEPT TEACHING. (PREPRINT OF A CHAPTER TO APPEAR IN R. GAGNE, RESEARCH APPROACHES TO SCHOOL SUBJECT LEARNING, TO BE PUBLISHED BY R. E. PEACOCK PUBLISHERS, 1968).

PITTSBURGH UNIVERSITY, PENNSYLVANIA, LEARNING RESEARCH AND DEVELOPMENT CENTER ED 016 626 NOT AVAILABLE FROM EDRS

67 60

*BIBLIOGRAPHIES, *CONCEPT FORMATION, *CONCEPT TEACHING, *INSTRUCTION, *LEARNING, *RESEARCH REVIEWS, EDUCATIONAL PSYCHOLOGY, RESEARCH, VERBAL LEARNING

16. SE 004 698

1

08 68 18

GLASER, ROBERT

LEARNING

UNIVERSITY OF PITTSBURGH, PENNSYLVANIA, LEARNING RESEARCH AND DEVELOPMENT CENTER 02 00 68 69

*LEARNING, *RESEARCH REVIEWS (PUBLICATIONS), ATTENTION, CONCEPT LEARNING, DISCRIMINATION LEARNING, MEMORY, PERCEPTUAL LEARNING, PROBLEM SOLVING, REINFORCEMENT, VERBAL LEARNING



17. SE 005 125

08 85 17

GUNNELS, FRANCES GOODRICH

A STUDY OF THE DEVELOPMENT OF LOGICAL JUDGMENTS IN SCIENCE OF SUCCESSFUL AND UNSUCCESSFUL PROBLEM SOLVERS IN GRADES FOUR THROUGH NINE

UNIVERSITY OF ALABAMA, UNIVERSITY

UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN

ED 026 249

NOT AVAILABLE FROM EDRS

119 67

*COGNITIVE PROCESSES, *ELEMENTARY SCHOOL SCIENCE, *LEARNING, *PROBLEM SOLVING, *SECONDARY SCHOOL SCIENCE, DOCTORAL THESES, LOGICAL THINKING

18. SE 004 905

08 09 17

HARPER, E. HAROLD; STEFFE, LESLIE, P.

THE EFFECTS OF SELECTED EXPERIENCES ON THE ABILITY OF KINDERGARTEN AND FIRST-GRADE CHILDREN TO CONSERVE NUMEROUSNESS

UNIVERSITY OF WISCONSIN, MADISON, RESEARCH AND DEVELOPMENT CENTER

EDRS

нс \$2.70 MF \$0.25 ED 021 752

02 00 68

52 *ARITHMETIC, *CONCEPT FORMATION, *ELEMENTARY SCHOOL MATHEMATICS, *MATHEMATICS, *NUMBER CONCEPTS, GRADE 1, KINDERGARTEN, PERCEPTION, UNIVERSITY OF WISCONSIN, MADISON, WISCONSIN, WISCONSIN RESEARCH AND DEVELOPMENT CENTER FOR COGNITIVE LEARNING, 1968

SE 004 908 19.

3

08 31 17

HELGESON, STANLEY L.

THE RELATIONSHIPS BETWEEN CONCEPTS OF FORCE ATTAINED AND MATURITY AS INDICATED BY GRADE LEVELS

UNIVERSITY OF WISCONSIN, MADISON, RESEARCH AND DEVELOPMENT CENTER

EDRS HC \$2.85 MF \$0.25 ED 020 910

55 03 00 68

*CONCEPT FORMATION, *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTION, *LEARNING, *PHYSICAL SCIENCES, COGNITIVE PROCESSES, FORCES (PHYSICAL), SCIENTIFIC CONCEPTS, ACADEMIC ACHIEVEMENT, PHYSICS, SCIENCE CONCEPT LEARNING PROJECT, RESEARCH REPORTS

SE 005 670 20.

1

08 09 20

HENDRIX, GERTRUDE

LEARNING BY DISCOVERY

THE MATHEMATICS TEACHER

05 00 61

*CLASSROOM TECHNIQUES, *DISCOVERY PROCESSES, *INSTRUCTION, *MATHEMATICS, *MATHEMATICS EDUCATION, *TEACHING TECHNIQUES, DISCOVERY LEARNING, LEARNING PROCESSES



21. SE 005 671

1

08 09 20

HENDRIX, GERTRUDE

THE PSYCHOLOGICAL APPEAL OF DEDUCTIVE PROOF

THE MATHEMATICS TEACHER

11 00 61 6

*DEDUCTIVE METHODS, *INSTRUCTION, *LEARNING, *MATHEMATICS, GEOMETRY, LEARNING PROCESSES, TEACHING PROCEDURES

22. SE 005 979

1

08 09 17

HOLLANDER, ELAINE KIND

THE EFFECTS OF VARIOUS INCENTIVES ON FIFTH AND SIXTH GRADE INNER-CITY CHILDREN'S PERFORMANCE OF AN ARITHMETIC TASK

THE AMERICAN UNIVERSITY

UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN

68 11.

*ACADEMIC ACHIEVEMENT, *DISADVANTAGED STUDENTS, *ELEMENTARY SCHOOL MATHEMATICS, *LEARNING, MOTIVATION, ARITHMETIC, GRADE 5, GRADE 6, INSTRUCTION, MATHEMATICS, WASHINGTON, D.C.

23. SE 005 334

1

08 86 20

JACOBS, LEWIS

HUMAN INTELLIGENCE, THE PHYSIOLOGICAL VIEW

THE SCIENCE TEACHER

09 00 68

*INTELLECTUAL DEVELOPMENT, *PHYSIOLOGY, INTELLIGENCE, INTELLIGENCE DIFFERENCES

24. SE 004 496

1

08 68 17

JUDD, WILSON A.

THE EFFECTS OF TASK CHARACTERISTICS ON RESPONSE LATENCY AND LATENCY TRENDS DURING LEARNING AND OVERLEARNING

UNIVERSITY OF PITTSBURGH, LEARNING RESEARCH AND DEVELOPMENT CENTER

03 00 68

*INDIVIDUALIZED INSTRUCTION, *INSTRUCTION, *LEARNING, COMPUTER ASSISTED INSTRUCTION, RESEARCH REPORTS, PROGRAMED INSTRUCTION



08 12 17

KELLOUGH, RICHARD D.

AN EXPERIMENT IN THE TEACHING OF BIOLOGY TO SLOW LEARNERS IN HIGH SCHOOL OREGON STATE UNIVERSITY, CORVALLIS

UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN

NOT AVAILABLE FROM EDRS ED 021 711

170 67

*BIOLOGY, *INSTRUCTION, *LEARNING, *SECONDARY SCHOOL SCIENCE, *SLOW LEARNERS, ATTITUDES, DOCTORAL THESES, PERCEPTION, STUDENT INTERESTS, SEX DIFFERENCES, SELF CONCEPT, TEACHING METHODS, TEACHING PROCEDURES, RESEARCH REPORTS, CALIFORNIA TEST OF PERSONALITY, NELSON BIOLOGY TEST, 1967

26. SE 005 276

08 86 31

KIELDERGAARD, PAUL M.

PAVLOV - AN INFORMATION RETRIEVAL PROGRAM FOR THE ANALYSIS OF LEARNING DATA UNIVERSITY OF PITTSBURGH, PENNSYLVANIA, LEARNING RESEARCH AND DEVELOPMENT CENTER

*INFORMATION RETRIEVAL, *LEARNING THEORIES, *VERBAL LEARNING, COMPUTER ORIENTED 67 PROGRAMS, DATA ANALYSIS

27. SE 004 860

3

08 13 17

KUHN, DAVID JOHN

A STUDY OF VARYING MODES OF TOPICAL PRESENTATION IN ELEMENTARY COLLEGE BIOLOGY TO DETERMINE THE EFFECT OF ADVANCE ORGANIZERS IN KNOWLEDGE ACQUISITION AND RETENTION PURDUE UNIVERSITY, LAFAYETTE, INDIANA

UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN

NOT AVAILABLE FROM EDRS ED 021 749

205

67 *BIOLOGICAL SCIENCES, *COGNITIVE DEVELOPMENT, *COLLEGE SCIENCE, COGNITIVE PROCESSES, DOCTORAL THESES, FEMALES, INSTRUCTION, LEARNING, TEACHING TECHNIQUES, RESEARCH REPORTS, PURDUE UNIVERSITY, 1967

28. SE 005 381

08 09 17

LEAKE, LOWELL JR.

THE STATUS OF THREE CONCEPTS OF PROBABILITY IN CHILDREN OF SEVENTH, EIGHTH, AND NINTH GRADES

JOURNAL OF EXPERIMENTAL EDUCATION

65

*CONCEPT FORMATION, *COGNITIVE DEVELOPMENT, *LEARNING PROCESSES, *MATHEMATICAL CONCEPTS, *SECONDARY SCHOOL MATHEMATICS, ABILITY GROUPING, ACHIEVEMENT, CONCEPT FORMATION, GRADE 7, GRADE 8, GRADE 9, PROBABILITY, RESEARCH REPORTS, 1965



3

08 09 17

MARTIN, BERNARD LOYAL

SPATIAL VISUALIZATION ABILITIES OF CENTRAL WASHINGTON STATE COLLEGE PROSPECTIVE ELEMENTARY AND SECONDARY TEACHERS OF MATHEMATICS

OREGON STATE UNIVERSITY, CORVALLIS

UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN

ED 020 126 NOT AVAILABLE FROM EDRS

66 106

*DOCTORAL THESES, *ELEMENTARY SCHOOL TEACHERS, *LEARNING, *SECONDARY SCHOOL TEACHERS, *TEACHER EDUCATION, ABILITY, EVALUATION, MATHEMATICS, SPACE ORIENTATION, CENTRAL WASHINGTON STATE COLLEGE, WASHINGTON, DIFFERENTIAL APTITUDE TEST OF SPACE RELATIONS, REVISED MINNESOTA PAPER FORM BOARD TEST, SEQUENTIAL TEST OF EDUCATIONAL PROGRESS - MATHEMATICS

30. SE 004 525

1

08 09 20

MOORE, OMAR K.

ON RESPONSIVE ENVIRONMENTS

UNIVERSITY OF PITTSBURGH, PENNSYLVANIA, LEARNING RESEARCH AND DEVELOPMENT CENTER 04 00 67 10

*EDUCATIONAL PROGRAMS, *ELEMENTARY SCHOOL MATHEMATICS, *INSTRUCTION, *LEARNING, *MATHEMATICS, *RESEARCH, INNOVATION, PROGRAM IMPROVEMENT

31. SE 005 983

1

08 09 17

NABORS, CECIL THOMAS

THE EFFECT OF INDIVIDUALIZED VERBAL PROBLEM ASSIGNMENTS ON THE MATHEMATICAL ACHIEVEMENT OF FIFTH-GRADE STUDENTS

UNIVERSITY OF HOUSTON

UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN

68 128

*ACHIEVEMENT, *ARITHMETIC, *ELEMENTARY SCHOOL MATHEMATICS, *INSTRUCTION, GRADE 5, INDIVIDUAL INSTRUCTION, MATHEMATICS

32. SE 005 552

1

08 85 20

NOVAK, JOSEPH D.

THE ROLE OF CONCEPTS IN SCIENCE TEACHING PURDUE UNIVERSITY, LAFAYETTE, INDIANA REPRINT FROM ANALYSES OF CONCEPT LEARNING PUBLISHED BY

ACADEMIC PRESS, INC., NEW YORK, NEW YORK

66 16

*CONCEPT FORMATION, *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTION, *LEARNING, *SECONDARY SCHOOL SCIENCE, SCIENTIFIC CONCEPTS, BLOOM'S TAXONOMY OF EDUCATIONAL OBJECTIVES - COGNITIVE DOMAIN, PROGRESSIVE EDUCATION ASSOCIATION COMMISSION ON SECONDARY SCHOOL CURRICULUM, INTERNATIONAL ENCYCLOPEDIA OF UNIFIED SCIENCE, 1966



08 09 22 1 33. SE 005 541

PAGE, DAVID A.

ARITHMETIC WITH FRAMES

THE ARITHMETIC TEACHER

04 00 57

14 *ARITHMETIC, *ELEMENTARY SCHOOL MATHEMATICS, *INSTRUCTION, *LEARNING, *MATHEMATICS, CURRICULUM, CURRICULUM DEVELOPMENT, MATHEMATICAL CONCEPTS, NUMBER CONCEPTS, TEACHER EDUCATION, UNIVERSITY OF ILLINOIS ARITHMETIC PROJECT, CARNEGIE CORPORATION, NATIONAL SCIENCE FOUNDATION, 1960

08 86 11 34. SE 005 095

PARNES, SIDNEY J.; HARDING, HAROLD F. A SOURCE BOOK FOR CREATIVE THINKING CHARLES SCRIBNER'S SONS, NEW YORK

> 391 62

*CREATIVE THINKING, *CREATIVITY, *LEARNING, CONCEPT FORMATION, INSTRUCTION, TEACHING PROCEDURES

08 51 17 1 35. SE 005 648

PELLA, MILTON O.; CAREY, RUSSELL L. LEVELS OF MATURITY AND LEVELS OF UNDERSTANDING FOR SELECTED CONCEPTS OF THE

PARTICLE NATURE OF MATTER JOURNAL OF RESEARCH IN SCIENCE TEACHING

15

*CONCEPT FORMATION, *ELEMENTARY SCHOOL SCIENCE, *ELEMENTARY SCHOOL STUDENTS, *LEARNING, *MATTER, *SCIENTIFIC CONCEPTS, GRADE 2, GRADE 3, GRADE 4, GRADE 5, RESEARCH REPORTS, STUDENT CHARACTERISTICS, WISCONSIN RESEARCH AND DEVELOPMENT CENTER FOR COGNITIVE LEARNING, MADISON, 1967

08 91 17 3 36. SE 004 039

PHILLIPS, DARRELL GORDON

AN INVESTIGATION OF POSSBILE HIERARCHICAL DEPENDENCY OF FOUR PLAGET-TYPE TASKS UNDER TWO METHODS OF PRESENTATION TO THIRD-, FIFTH-, AND SEVENTH-GRADE CHILDREN FLORIDA STATE UNIVERSITY, TALLAHASSEE

UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN

NOT AVAILABLE FROM EDRS ED 022 667

67

*CONCEPT FORMATION, *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTION, *LEARNING, DOCTORAL THESES, GRADE 3, GRADE 5, GRADE 7, PROBLEM SOLVING, SEQUENTIAL LEARNING, RESEARCH REPORTS, PIAGET, 1967



-3

08 81 17

PIAGET, JEAN

THE CHILD'S CONCEPTION OF PHYSICAL CAUSALITY

LITTLEFIELD, ADAMS AND COMPANY, PATERSON, NEW JERSEY

ED 019 246 NOT AVAILABLE FROM EDRS

66 309

*CONCEPT FORMATION, *COGNITIVE PROCESSES, *EDUCATIONAL PSYCHOLOGY, *ELEMENTARY SCHOOL SCIENCE, *LEARNING THEORIES, *PHYSICAL SCIENCES, *STUDENT CHARACTERISTICS, *SCIENTIFIC CONCEPTS, LOGIC

38. SE 004 302

3

08 85 17

PLAGET, JEAN

THE CHILD'S CONCEPTION OF THE WORLD

LITTLEFIELD, ADAMS AND COMPANY, PATERSON, NEW JERSEY

ED 019 245 NOT AVAILABLE FROM EDRS

67 397

*CONCEPT FORMATION, *COGNITIVE PROCESSES, *ELEMENTARY SCHOOL SCIENCE, *LEARNING THEORIES, *RESEARCH METHODOLOGY, *STUDENT CHARACTERISTICS, *SCIENTIFIC CONCEPTS, CLINICAL METHODS, EDUCATIONAL PSYCHOLOGY, SECONDARY SCHOOL SCIENCE

39. SE 004 113

1

08 86 19

PIAGET, JEAN

SPEED AND TIME

METROPOLITAN DETROIT SCIENCE REVIEW

12 00 67

1

*CONCEPT FORMATION, *LEARNING, *PSYCHOLOGY, *SCIENTIFIC CONCEPTS, ADULTS, BEHAVIORAL SCIENCES, SPEECHES, SPEED, TIME, UNIVERSITY OF MIGHICAN, PIAGET

40. SE 005 190

3

08 75 17

PRICE, LAMAR

AN INVESTIGATION OF THE TRANSFER OF AN ELEMENTARY SCIENCE PROCESS UNIVERSITY OF SOUTHERN CALIFORNIA, LOS ANGELES

UNIVERSITY MICROFILMS, ANN ARBOR, MICHGIAN

ED 026 253 NOT AVAILABLE FROM EDRS

68 135

*DISCOVERY PROCESSES, *LEARNING, *SECONDARY SCHOOL SCIENCE, *TRANSFER OF TRAINING, COGNITIVE PROCESSES, DOCTORAL THESES, ELEMENTARY SCHOOL SCIENCE, INQUIRY TRAINING, INSTRUCTION, MANIPULATIVE MATERIALS, OBJECT MANIPULATION, LOS ANGELES COUNTY SCIENCE PROJECT

41. SE 004 871

3

08 09 17

PRIELIPP, ROBERT WALTER

THE EFFECT OF TEXTBOOK, SEX, AND SETTING OF THE PROBLEM ON THE ABILITY OF FIRST YEAR ALGEBRA STUDENTS TO RECOGNIZE THREE PROPERTIES OF AN ABELIAN GROUP UNIVERSITY OF WISCONSIN, MADISON

UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN

ED 025 411 NOT AVAILABLE FROM EDRS

67 262

*ALGEBRA, *ACHIEVEMENT, *INSTRUCTION, *LEARNING, *SECONDARY SCHOOL MATHEMATICS, COMPARATIVE ANALYSIS, GRADE 9, MATHEMATICS

08 09 17

42. SE 004 872 PROCTOR, CHARLES MCDAVITT, JR. AN EXPERIMENTAL STUDY OF THE RELATIONSHIP BETWEEN CERTAIN THEORETICALLY POSTULATED ELEMENTS IN CLASSROOM LEARNING AND STUDENT ACHIEVEMENT, GRADE DISTRIBUTIONS, AND THE INCIDENCE OF CERTAIN CLASSROOM ACTIVITIES UNIVERSITY OF MARYLAND, COLLEGE PARK UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN

NOT AVAILABLE FROM EDRS ED 022 683

124 67 *ACHIEVEMENT, *ALGEBRA, *LEARNING, *SECONDARY SCHOOL MATHEMATICS, *COCURRICULAR ACTIVITIES, DOCTORAL THESES, GRADES (SCHOLASTIC), RESEARCH REPORTS, MARYLAND

08 81 17 SE 005 494 43. RAUN, CHESTER E.; BUTTS, DAVID P. THE RELATIONSHIP BETWEEN THE STRATEGIES OF INQUIRY IN SCIENCE AND STUDENT COGNITIVE AND AFFECTIVE BEHAVIORAL CHANGE UNIVERSITY OF TEXAS, AUSTIN, SCIENCE EDUCATION CENTER

21 *BEHAVIORAL CHANGE, *EDUCATIONAL STRATEGIES, *ELEMENTARY SCHOOL STUDENTS, *ELEMENTARY SCHOOL SCIENCE, *LEARNING, *RESEARCH REPORTS, AFFECTIVE LEARNING, COGNITIVE PROCESSES, PROBLEM SOLVING, SCIENCE EDUCATION CENTER, THE UNIVERSITY OF TEXAS, OFFICE OF EDUCATION, SCIENCE - A PROCESS APPROACH, CALIFORNIA MENTAL MATURITY TESTS, STEP LISTENING TEST, STEP SCIENCE TEST, TAB SCIENCE TEST, GUILFORD FACTOR RHYMES TEST, GUILFORD FACTOR - COMMON SITUATIONS TEST, SEMANTIC DIFFERENTIAL, METROPOLITAN ACHIEVEMENT TEST, AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

08 81 17 44. SE 005 321

RAUN, CHESTER E.; BUTTS, DAVID P. THE RELATIONSHIP BETWEEN THE STRATEGIES OF INQUIRY IN SCIENCE AND STUDENT COGNITIVE AND AFFECTIVE BEHAVIORAL CHANGE

UNIVERSITY OF TEXAS, AUSTIN, SCIENCE EDUCATION CENTER **EDRS**

MF \$0.25 HC \$1.30 ED 024 595

24 66 *BEHAVIOR CHANGE, *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTION, *STUDENT CHARACTERISTICS, ATTITUDES, ACHIEVEMENT, COGNITIVE DEVELOPMENT, DIVERGENT THINKING, GRADE 4, GRADE 5, GRADE 6, INTELLIGENCE, LEARNING, PROBLEM SOLVING, SCIENCE COURSE IMPROVEMENT PROJECT, SCIENCE - A PROCESS APPROACH, AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, UNITED STATES OFFICE OF EDUCATION, 1968



45. SE 005 650

1

08 81 17

RAVEN, RONALD J.

THE DEVELOPMENT OF CLASSIFICATION ABILITIES IN CULTURALLY DISADVANTAGED CHILDREN JOURNAL OF RESEARCH IN SCIENCE TEACHING

68

*COGNITIVE ABILITY, *CULTURALLY DISADVANTAGED, *ELEMENTARY SCHOOL SCIENCE, *LEARNING, STUDENT CHARACTERISTICS, ELEMENTARY SCHOOL STUDENTS, RESEARCH REPORTS, URBAN SCHOOLS, 1967

46. SE 005 649

1

08 51 19

RAVEN, RONALD J.

THE DEVELOPMENT OF THE CONCEPT OF MOMENTUM IN PRIMARY SCHOOL CHILDREN JOURNAL OF RESEARCH IN SCIENCE TEACHING

68 8

*CONCEPT FORMATION, *ELEMENTARY SCHOOL SCIENCE, *ELEMENTARY SCHOOL STUDENTS, *LEARNING, *MOMENTUM, PRIMARY GRADES, PHYSICAL SCIENCES, RESEARCH REPORTS, SCIENTIFIC CONCEPTS, STUDENT CHARACTERISTICS, SCIENCE CURRICULUM IMPROVEMENT STUDY, NATIONAL SCIENCE FOUNDATION, WHITTIER ELEMENTARY SCHOOL, BERKELEY, CALIFORNIA, SCIENCE RESEARCH ASSOCIATES PRIMARY MENTAL ABILITIES TEST, 1967

47. SE 005 488

1

08 81 17

READ, WILLIAM F.

SCIENCE WITH ACADEMICALLY TALENTED SIXTH GRADERS. PAPER PRESENTED AT NARST MEETING, FEBRUARY, 1967

LEXINGTON PUBLIC SCHOOLS, MASSACHUSETTS

02 00 67

12

*ELEMENTARY SCHOOL SCIENCE, *INSTRUCTION, *LEARNING, *PROBLEM SOLVING, ABLE STUDENTS, CREATIVITY, GRADE 6, RESEARCH REPORTS, FISKE ELEMENTARY SCHOOL, LEXINGTON, MASSACHUSETTS

48. SE 005 210

1

08 09 20

ROBERTS, FRED S.; SUPPES, PATRICK

SOME PROBLEMS IN THE GEOMETRY OF VISUAL PERCEPTION

SYNTHESE

67 29

*CONCEPT FORMATION, *EYE MOVEMENTS, *LEARNING, *PERCEPTION, *VISUAL PERCEPTION, GEOMETRY, GEOMETRIC CONCEPTS, MATHEMATICS

49. SE 004 323

2

08 11 17

RUSH, ORVILLE FINDLEY

THE DEVELOPMENT OF SCIENTIFIC CONCEPTS OF LIVING AND NON-LIVING AMONG

PRESCHOOL CHILDREN

NORTH CAROLINA UNIVERSITY, CHAPEL HILL

UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN

64 24

*BIOLOGY, *CONCEPT FORMATION, *ELEMENTARY SCHOOL SCIENCE, *LEARNING, DOCTORAL THESES, INSTRUCTION, NURSERY SCHOOLS, PRESCHOOL CHILDREN, RESEARCH REPORTS, 1964, CONCEPT

50. SE 005 168 **3**

SCHULZ, RICHARD WILLIAM

THE ROLE OF COGNITIVE ORGANIZERS IN THE FACILITATION OF CONCEPT LEARNING IN ELEMENTARY SCHOOL SCIENCE

08 01 17

PURDUE UNIVERSITY, LAFAYETTE, INDIANA

UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN

ED 026 251 NOT ABAILABLE FROM EDRS

66 200

*CONCEPT FORMATION, *COGNITIVE PROCESSES, *ELEMENTARY SCHOOL SCIENCE, *LEARNING, ACHIEVEMENT, DOCTORAL THESES, GRADE 6, IOWA TESTS OF BASIC SKILLS

51. SE 005 337 1 08 86 02

SHULMAN, LEE S.

PSYCHOLOGICAL CONTROVERSIES IN THE TEACHING OF SCIENCE AND MATHEMATICS THE SCIENCE TEACHER

08 00 68 5

*LEARNING THEORIES, *MATHEMATICS EDUCATION, *SCIENCE EDUCATION, BEHAVIORAL OBJECTIVES, CURRICULUM DEVELOPMENT, DISCOVERY LEARNING, DISCOVERY PROCESSES, INSTRUCTION, INQUIRY TRAINING, INTELLECTUAL DEVELOPMENT, LEARNING READINESS, GAGNE, BRUNER, PIAGET

52. SE 004 096 2 08 86 06

SHULMAN, LEE S.; KEISLAR, EVAN R.

LEARNING BY DISCOVERY - A CRITICAL APPRAISAL

RAND MCNALLY AND COMPANY, CHICAGO, ILLINOIS

66 224

*DISCOVERY LEARNING, *DISCOVERY PROCESSES, *EDUCATIONAL RESEARCH, *INDUCTIVE METHODS, *LEARNING, *MATHEMATICS, *TEACHING METHODS, CONFERENCE REPORTS, EDUCATIONAL OBJECTIVES, LEARNING PROCESSES, RESEARCH, SCIENCE EDUCATION, SOCIAL STUDIES, STANFORD UNIVERSITY, SOCIAL SCIENCE RESEARCH COUNCIL

53. SE 005 335 1 08 86 20

SIMMONS, WILLIAM L.

HUMAN INTELLIGENCE, THE PSYCHOLOGICAL VIEW

THE SCIENCE TEACHER

08 00 68

*EDUCATIONAL PSYCHOLOGY, *INTELLIGENCE, *PSYCHOLOGICAL TESTING, DEVELOPMENTAL PSYCHOLOGY, INTELLIGENCE FACTORS, PSYCHOLOGY



3

08 82 20

SKINNER, B. F.

TEACHING SCIENCE IN HIGH SCHOOL - WHAT IS WRONG? PAPER PRESENTED AT THE AAAS MEETING, DECEMBER, 1967, NEW YORK **EDRS**

ED 020 140 MF \$0.25 HC \$0.65

> 67 11

*DISCOVERY LEARNING, *INSTRUCTION, *LEARNING, *PROGRAMED INSTRUCTION, *REINFORCEMENT, *SECONDARY SCHOOL SCIENCE, *SCIENCE EDUCATION, AUDIOVISUAL AIDS, EDUCATIONAL PROBLEMS, SCIENTIFIC MANPOWER, AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

55. SE 004 205 1

08 91 17

SMITH, FRANK

A COMPARISON OF TELEVIEWING AND NON-TELEVIEWING CHILDREN'S EXPLANATIONS OF NATURAL PHENOMENA

SCIENCE EDUCATION

02 00 64

*CHILD DEVELOPMENT, *ELEMENTARY SCHOOL SCIENCE, *ENVIRONMENTAL INFLUENCES, *HOME INFLUENCES, *INSTRUCTION, *LEARNING, *NATURAL PHENOMENA, *TELEVISION, *SCIENTIFIC CONCEPTS, COMPARATIVE ANALYSES, CONCEPT FORMATION, RESEARCH REPORTS, STUDENT CHARACTERISTICS

SE 004 974 **56.**

3

08 42 17

SMITH, HERBERT A.

AN ANALYSIS OF A TYPICAL INSTRUCTIONAL UNIT IN JUNIOR HIGH SCHOOL SCIENCE TO DETERMINE THE EXPLICIT AND IMPLICIT CONCEPT LOADING INVOLVED COLORADO STATE UNIVERSITY, FORT COLLINS

EDRS

ED 024 574 MF \$0.25 HC \$0.95

17

06 00 68

*CURRICULUM EVALUATION, *EARTH SCIENCE, *LEARNING, *SECONDARY SCHOOL SCIENCE, *SCIENTIFIC CONCEPTS, CONCEPT FORMATION, COURSE CONTENT, SCIENCE COURSES, EARTH SCIENCE CURRICULUM PROJECT, INVESTIGATING THE EARTH, UNITED STATES DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, 1968

57. SE 004 808

08 **0**9 17

SMOCK, CHARLES D.; BELOVICZ, GRETCHEN

UNDERSTANDING OF CONCEPTS OF PROBABILITY THEORY BY JUNIOR HIGH SCHOOL CHILDREN PURDUE UNIVERSITY, LAFAYETTE, INDIANA

EDRS

ED 020 147 MF \$0.50 HC \$3.15

*COGNITIVE DEVELOPMENT, *JUNIOR HIGH SCHOOLS, *LEARNING, *MATHEMATICS, *PROBABILITY, CONCEPT FORMATION, MATHEMATICS EDUCATION, SCIENCE EDUCATION, RESEARCH REPORTS, BRIM SCALE



3

08 11 17

STAUSS, NYLES G.

AN INVESTIGATION INTO THE RELATIONSHIP BETWEEN CONCEPT ATTAINMENT AND LEVEL OF MATURITY

UNIVERSITY OF WISCONSIN, MADISON, RESEARCH AND DEVELOPMENT CENTER EDRS

ED 020 912 MF \$0.50 HC \$3.95

02 00 68 77

*CELL THEORY, *CONCEPT FORMATION, *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTION, *LEARNING, ACADEMIC ACHIEVEMENT, BIOLOGICAL SCIENCES, CURRICULUM PLANNING, COGNITIVE TESTS, RESEARCH REPORTS, SCIENTIFIC CONCEPTS, SCIENCE CONCEPT LEARNING PROJECT

59. SE 004 830

3

08 11 17

STAUSS, NYLES G.

MATERIALS USED IN TEACHING AND EVALUATING THE CONCEPTS RELATED TO THE BIOLOGICAL CELL IN GRADES 2-6

UNIVERSITY OF WISCONSIN, MADISON, RESEARCH AND DEVELOPMENT CENTER EDRS

ED 020 152 MF \$0.25 HC \$2.25

01 00 68 43

*BIOLOGY, *CONCEPT FORMATION, *COGNITIVE PROCESSES, *ELEMENTARY SCHOOL SCIENCE, *LEARNING, *SCIENTIFIC CONCEPTS, AUDIOVISUAL AIDS, CYTOLOGY, INSTRUCTIONAL MATERIALS, MULTIPLE CHOICE TESTS, OBJECTIVE TESTS, TESTS

60. SE 005 640

3

08 09 17

STEFFE, LESLIE P.; PARR, ROBERT B.

THE DEVELOPMENT OF THE CONCEPTS OF RATIO AND FRACTION IN THE FOURTH, FIFTH, AND SIXTH YEARS OF THE ELEMENTARY SCHOOL

UNIVERSITY OF WISCONSIN, MADISON, RESEARCH AND DEVELOPMENT CENTER EDRS

ED 023 612 MF \$0.25 HC \$2.70

03 00 68 52

*ARITHMETIC, *CONCEPT FORMATION, *COGNITIVE DEVELOPMENT, *ELEMENTARY SCHOOL MATHEMATICS, *NUMBER CONCEPTS, GRADE 4, GRADE 5, GRADE 6, MATHEMATICAL CONCEPTS, RESEARCH REPORTS, MATHEMATICS CONCEPT LEARNING PROJECT, CENTER FOR COGNITIVE LEARNING, MADISON, WISCONSIN, 1968

61. SE 004 891

1

08 19 29

STENDLER, CELIA

THE DEVELOPMENT APPROACH OF PIAGET AND ITS IMPLICATIONS FOR SCIENCE IN THE ELEMENTARY SCHOOLS

THE MACMILLAN COMPANY, NEW YORK, NEW YORK

66 25

*ELEMENTARY SCHOOL SCIENCE, *INSTRUCTION, *LEARNING, *SCIENCE EDUCATION, CONCEPT DEVELOPMENT, COGNITIVE PROCESSES, CURRICULUM PLANNING, PROBLEM SOLVING, PIAGET

62. SE 005 290 1

SUPPES, PATRICK

APPLICATIONS OF MATHEMATICAL MODELS OF LEARNING IN EDUCATION SCIENTIFIC ORGANIZER

4/.

*LEARNING THEORIES, *MATHEMATICAL MODELS, CURRICULUM, CURRICULUM DEVELOPMENT, GRADE 1, GRADE 2, LEARNING, MATHEMATICS

08 09 31

SE 005 204 1 08 09 20

SUPPES, PATRICK

63.

64.

65.

CONCEPT FORMATION AND BAYRESIAN DECISIONS

STANFORD UNIVERSITY, CALIFORNIA

28

*CONCEPT FORMATION, *DECISION MAKING, *LEARNING, *MATHEMATICS, LOGIC, MODELS, PROBLEM SOLVING, ADVANCED RESEARCH PROJECTS AGENCY, UNITED STATES DEPARTMENT OF DEFENSE, SYSTEM DEVELOPMENT CORPORATION

SE 004 176 2 08 09 17

SUPPES, PATRICK

MATHEMATICAL CONCEPT FORMATION IN CHILDREN

AMERICAN PSYCHOLOGIST

02 00 66 12

*CONCEPT FORMATION, *ELEMENTARY SCHOOL MATHEMATICS, *LEARNING PROCESSES, *MATHEMATICS, GRADE 1, GRADE 4, GRADE 6, LEARNING, LEARNING THEORIES, RESEARCH REPORTS, 1966, UNITED STATES OFFICE OF EDUCATION, CARNEGIE CORPORATION, INSTITUTE FOR MATHEMATICAL STUDIES IN SOCIAL SCIENCES, CALIFORNIA

SE 004 172 2 08 09 17

SUPPES, PATRICK

MODERN LEARNING THEORY AND THE ELEMENTARY-SCHOOL CURRICULUM

AMERICAN EDUCATIONAL RESEARCH JOURNAL

03 00 64 14

*COMPUTER ASSISTED INSTRUCTION, *CURRICULUM, *INDIVIDUAL DIFFERENCES, *LEARNING, *MATHEMATICS, COMPUTERS, ELEMENTARY SCHOOL MATHEMATICS

66. SE 004 728 1 08 09 18

SUPPES, PATRICK

SOME THEORETICAL MODELS FOR MATHEMATICS LEARNING JOURNAL OF RESEARCH AND DEVELOPMENT IN EDUCATION

67 22

*CURRICULUM, *INSTRUCTION, *LEARNING, *MATHEMATICAL MODELS, ARITHMETIC, GEOMETRY, LEARNING THEORIES, LEARNING DIFFICULTIES, MATHEMATICS, RESEARCH REVIEWS, VISUAL PERCEPTION

67. SE 005 221 1 08 09 20

SUPPES, PATRICK

THE USES OF COMPUTERS IN EDUCATION

SCIENTIFIC AMERICAN

09 00 66 13

*CURRICULUM DEVELOPMENT, *COMPUTERS, *COMPUTER ASSISTED INSTRUCTION, *INSTRUCTION, *LEARNING, ARITHMETIC, EDUCATIONAL PROBLEMS, MATHEMATICS

68. SE 004 171 2 08 09 17

SUPPES, PATRICK; GROEN, GUY

SOME COUNTING MODELS FOR FIRST-GRADE PERFORMANCE DATA ON SIMPLE ADDITION FACTS RESEARCH IN MATHEMATICS EDUCATION

67 8

*ADDITION, *ELEMENTARY SCHOOL MATHEMATICS, *INSTRUCTION, *LEARNING DIFFICULTIES, *MATHEMATICS, ARITHMETIC, GRADE 1, LEARNING, PROGRAMED INSTRUCTION, RESEARCH REPORTS, UNITED STATES OFFICE OF EDUCATION, NATIONAL SCIENCE FOUNDATION, CARNEGIE CORPORATION, CALIFORNIA, 1967

69. SE 005 217 1 08 09 17

SUPPES, PATRICK; GROEN, GUY

SOME COUNTING MODELS FOR FIRST-GRADE PERFORMANCE DATA ON SIMPLE ADDITION FACTS (IN J. M. SCANDURA (ED.), "RESEARCH IN MATHEMATICS EDUCATION" WASHINGTON, D.C. NCTM, 1967, PP. 35-43)

RESEARCH IN MATHEMATICS EDUCATION

67 8

*ARITHMETIC, *ELEMENTARY SCHOOL MATHEMATICS, *FUNDAMENTAL OPERATIONS, *INSTRUCTION, *LEARNING, GRADE 1, MATHEMATICS, MATHEMATICAL MODELS

70. SE 005 209 1 08 09 17

SUPPES, PATRICK; ZINNES, JOSEPH L.

A CONTINUOUS-RESPONSE TASK WITH NONDETERMINATE, CONTINGENT REINFORCEMENT JOURNAL OF MATHEMATICAL PSYCHOLOGY

r 00 66 20

JNCEPT FORMATION, *LEARNING, *MATHEMATICS, *TASK PERFORMANCE, COLLEGE MATHEMATICS, RESEARCH REPORTS



71. SE 005 596

1

08 83 17

TANNER, DANIEL

INFLUENCING STUDENT OPINION IN THE COLLEGE CLASSROOM

JOURNAL OF EDUCATIONAL RESEARCH

09 00 68 4

*COLLEGE SCIENCE, *LEARNING, *STUDENT OPINION, *TEACHER EDUCATION, METHODS COURSES, TELEVISED INSTRUCTION, RESEARCH REPORTS, 1968, RUTGERS- THE STATE UNIVERSITY

72. SE 005 336

1

08 86 20

TORRANCE, E. PAUL

HUMAN INTELLIGENCE, THE CULTURE-RELATED VIEW

THE SCIENCE TEACHER

09 00 68

9 00 68 3

*CREATIVITY, *CREATIVE THINKING, *CULTURAL BACKGROUND, *CULTURAL DISADVANTAGEMENT, INTELLIGENCE, ENVIRONMENTAL INFLUENCES, INTELLECTUAL DEVELOPMENT, INTELLIGENCE TESTS, SOCIOECONOMIC INFLUENCES, TORRANCE TESTS OF CREATIVE THINKING

73. SE 004 076

2

08 12 17

TRIEZENBERG, HENRY J.

THE RELATIVE EFFECTIVENESS OF THREE LEVELS OF ABSTRACTION REPRESENTING THE CONCEPTUAL SCHEME OF EQUILIBRIUM AS AN ADVANCE ORGANIZER IN TEACHING UNIVERSITY OF WISCONSIN, MADISON

UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN

67 447

*CONCEPT FORMATION, *ECOLOGY, *GRADE 7, *GRADE 9, *INSTRUCTION, *LEARNING, *SECONDARY SCHOOL SCIENCE, *SCIENTIFIC CONCEPTS, *TEACHING METHODS, BIOLOGICAL SCIENCES, DOCTORAL THESES, RESEARCH REPORTS, STUDENT ATTITUDES, TELEVISED INSTRUCTION, 1967

74. SE 004 907

3

08 12 17

TRIEZENBERG, HENRY J.

THE USE OF AN ADVANCE ORGANIZER IN TEACHING SELECTED CONCEPTS OF ECOLOGICAL SYSTEMS UNIVERSITY OF WISCONSIN, MADISON, RESEARCH AND DEVELOPMENT CENTER EDRS

ED 020 909 MF \$0.25 HC \$2.65

02 00 68 51

*CONCEPT FORMATION, *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTION, *SECONDARY SCHOOL SCIENCE, ACADEMIC ACHIEVEMENT, BIOLOGICAL SCIENCES, COGNITIVE DEVELOPMENT, COMPARATIVE ANALYSIS, ECOLOGY, GRADE 7, GRADE 9, RETENTION, TELEVISED INSTRUCTION, TEACHING TECHNIQUES, SCIENCE CONCEPT LEARNING PROJECT



.

08 21 17

VOELKER, ALAN M.

THE RELATIVE EFFECTIVENESS OF TWO METHODS OF INSTRUCTION IN TEACHING THE CLASSIFICATIONAL CONCEPTS OF PHYSICAL AND CHEMICAL CHANGE TO ELEMENTARY SCHOOL CHILDREN

UNIVERSITY OF WISCONSIN, MADISON, RESEARCH AND DEVELOPMENT CENTER EDRS

ED 020 908 MF \$0.25 HC \$2.35

02 00 68 45

*CHEMISTRY, *CONCEPT FORMATION, *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTION, *LEARNING, CHEMISTRY, CONCEPT TEACHING, COGNITIVE DEVELOPMENT, RESEARCH REPORTS, SCIENCE CONCEPT LEARNING PROJECT, TEACHING TECHNIQUES

76. SE 005 993

1

08 09 17

WANG, MARGARET LI-CHING CHANG

AN INVESTIGATION OF SELECTED PROCEDURES FOR MEASURING AND PREDICTING RATE OF LEARNING IN CLASSROOMS OPERATING UNDER A PROGRAM OF INDIVIDUALIZED INSTRUCTION UNIVERSITY OF PITTSBURGH

UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN

68 85

*ELEMENTARY SCHOOL MATHEMATICS, *INSTRUCTION, *INDIVIDUAL INSTRUCTION, *LEARNING, *MATHEMATICS, *PREDICITON, ACHIEVEMENT, RESEARCH REPORTS, INDIVIDUALLY PRESCRIBED INSTRUCTION, UNIVERSITY OF PITTSBURGH

77. SE 004 200

1

08 86 20

WOLINSKY, GLORIA F.

JEAN PLAGET'S THEORY OF PERCEPTION

5

SCIENCE EDUCATION

02 00 64

*CONCEPT FORMATION, *LEARNING THEORIES, COGNITIVE DEVELOPMENT, INTELLECTUAL DEVELOPMENT, INTELLIGENCE, LEARNING, LEARNING CHARACTERISTICS, LEARNING DIFFICULTIES, PERCEPTION, PIAGET

78. SE 005 380

1

08 86 17

WRIGHT, A. D.; DIXON, T. R.

KNOWLEDGE OF RESULTS IN SCHEMATIC CONCEPT FORMATION

HUMAN RESOURCES RESEARCH OFFICE, GEORGE WASHINGTON UNIVERSITY, ALEXANDRIA, VIRGINIA

06 00 68 8

*CONCEPT FORMATION, *LEARNING, *PATTERN DISCRIMINATION, COGNITIVE PROCESSES, PERFORMANCE FACTORS, PERCEPTUAL DEVELOPMENT, RESEARCH REPORTS, SCHEMATIC STUDIES, TASK PERFORMANCE, VISUAL DISCRIMINATION, HUMAN RESOURCES RESEARCH OFFICE, GEORGE WASHINGTON UNIVERSITY



08 21 17

ZIEGLER, ROBERT E.

THE RELATIVE EFFECTIVENESS OF THE USE OF STATIC AND DYNAMIC MECHANICAL MODELS IN TEACHING ELEMENTARY SCHOOL CHILDREN THE THEORETICAL CONCEPT-THE PARTICLE NATURE

UNIVERSITY OF WISCONSIN, MADISON

UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN

ED 022 670 NOT AVAILABLE FROM EDRS

67 145

*CONCEPT FORMATION, *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTION, *LEARNING, *PHYSICAL SCIENCES, COGNITIVE DEVELOPMENT, DOCTORAL THESES, INDIVIDUAL INSTRUCTION, MATTER, PROBLEM SOLVING, SCIENTIFIC CONCEPTS, TEACHING METHODS, RESEARCH REPORTS, PIAGET

80. SE 005 604 08 86 20

CRITICISM OF SCIENCE TEACHING

BIOSCIENCE

EDRS

02 00 68

*DISCOVERY LEARNING, *LEARNING, *SCIENCE TEACHING, *TEACHING METHODS, EDUCATIONAL PROGRAMS, PROGRAMED INSTRUCTION, PAPERS, SCIENCE EDUCATION, TECHNOLOGY

81. SE 005 505 3 08 95 03 SCIENCE EDUCATION INFORMATION REPORT, GENERAL BIBLIOGRAPHY SERIES 9, EVALUATION, EDUCATIONAL OBJECTIVES, LEARNING THEORIES AND PROCESSES, RESEARCH METHODOLOGY ERIC INFORMATION ANALYSIS CENTER FOR SCIENCE EDUCATION, COLUMBUS, OHIO

ED 021 774 MF \$0.25 HC \$1.75

05 00 68 **33**

*EDUCATIONAL RESEARCH, *EVALUATION, *EDUCATIONAL OBJECTIVES, *LEARNING, *SCIENCE EDUCATION, ACHIEVEMENT, COGNITIVE DEVELOPMENT, CONCEPT FORMATION, CREATIVITY, COLLEGE SCIENCE, CRITICAL THINKING, DOCTORAL THESES, ELEMENTARY SCHOOL SCIENCE, INTERACTION PROCESS ANALYSIS, PROBLEM SOLVING, RESEARCH METHODOLOGY, SECONDARY SCHOOL SCIENCE, TESTS, TEACHER EDUCATION

(52)

D. RESEARCH METHODOLOGY

1. SE 005 328 1 04 83 20

BOGGS, JOHN R.

A DEVELOPMENTAL RESEARCH PLAN FOR JUNIOR COLLEGE REMEDIAL EDUCATION ERIC CLEARINGHOUSE ON JUNIOR COLLEGES

68 30

*JUNIOR COLLEGES, *RESEARCH METHODOLOGY, *REMEDIAL PROGRAMS, *STUDENT MOTIVATION, RESEARCH DESIGN, 1968

2. SE 005 107 · 1 14 86 17

BUCHANAN, BRUCE GARDNER

LOGICS OF SCIENTIFIC DISCOVERY

MICHIGAN STATE UNIVERSITY

UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN

66 217

*DISCOVERY PROCESSES, *LOGIC, *PHILOSOPHY, *RESEARCH METHODOLOGY, *SCIENTIFIC METHODOLOGY, DOCTORAL THESES, 1966

3. SE 004 846 2 14 95 17

CASTRO, BARRY

THE SCIENTIFIC OPPORTUNITIES FOREGONE BECAUSE OF THE SELECTIVE AVAILABILITY OF FEDERAL SUPPORT FOR UNIVERSITY-BASED RESEARCH IN PHYSICS (68-6048)

NEW YORK UNIVERSITY

UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN

67

*FEDERAL SUPPORT, *PHYSICS, *RESEARCH, DOCTORAL THESES, FUNDING, 1967

4. SE 005 718 1 14 12 20

CHANG, SHIH L.

QUANTITATIVE TREATMENT OF MICROBIOLOGICAL DATA

THE AMERICAN BIOLOGY TEACHER

08 00 68 16

*BIOLOGY, *MICROBIOLOGY, *RESEARCH METHODOLOGY, DATA ANALYSIS, INSTRUCTION, MATHEMATICS, SECONDARY SCHOOL SCIENCE, STATISTICS

5. SE 005 688 1 14 95 20

EASLEY, J. A.

THE NATURAL SCIENCES AND EDUCATIONAL RESEARCH - A COMPARISON

THE HIGH SCHOOL JOURNAL

10 00 66 12

*EDUCATIONAL RESEARCH, *RESEARCH, *RESEARCH METHODOLOGY, CURRICULUM, EDUCATIONAL PROBLEMS, INSTRUCTION, NATURAL SCIENCES



1

14 83 20

GIBSON, R. J.

EXPERIMENTAL DESIGN OR HAPPINESS IS PLANNING THE EXPERIMENT

BIOSCIENCE

03 00 68

3

*COLLEGE SCIENCE, *RESEARCH DESIGN, *RESEARCH METHODOLOGY, *SCIENTIFIC RESEARCH, RESEARCH, SECONDARY SCHOOL SCIENCE

7. SE 004 639

3

14 09 06

HOOTEN, JOSEPH R., JR.

JOURNAL OF RESEARCH AND DEVELOPMENT IN EDUCATION. PROCEEDINGS OF NATIONAL CONFERENCE ON NEEDED RESEARCH IN MATHEMATICS EDUCATION

JOURNAL OF RESEARCH AND DEVELOPMENT IN EDUCATION

UNIVERSITY OF GEORGIA, ATHENS

ED 022 674

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67 142

*CONFERENCE REPORTS, *MATHEMATICS EDUCATION, *RESEARCH, *TEACHING, CURRICULUM, CURRICULUM DEVELOPMENT, CONFERENCES, LEARNING, MATHEMATICS, RESEARCH PROBLEMS, RESEARCH NEEDS, UNIVERSITY OF GEORGIA

8. SE 004 063

2

14 86 17

LANGUIS, MARLIN L.

FUNCTION OF OBSERVATION IN THE STRATEGIES EMPLOYED BY AMERICAN RESEARCH SCIENTISTS THE PENNSYLVANIA STATE UNIVERSITY

UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN

65

223

*OBSERVATION, *SCIENTIFIC RESEARCH, *SCIENTISTS, DOCTORAL THESES, INSTRUCTION, INSTRUCTIONAL MATERIALS, RESEARCH REPORTS, SKILL DEVELOPMENT, 1964

9. SE 004 843

3

14 86 17

MAKI, DENNIS R.

A FORECASTING MODEL OF MANPOWER REQUIREMENTS IN THE HEALTH OCCUPATIONS IOWA STATE UNIVERSITY OF SCIENCE AND TECHNOLOGY, AMES EDRS

ED 020 153

MF \$0.75

HC \$7.80

67 154

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10. SE 005 434

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14 16 20

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JOURNAL OF BIOLOGICAL EDUCATION

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*BIOLOGY, *FIELD TECHNIQUES, *POPULATION STATISTICS, *RESEARCH METHODOLOGY, *ZOOLOGY, 1968



1

14 90 18

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RESEARCH IN MATHEMATICS EDUCATION

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14 95 24

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67 12

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14 58 20

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*ELEMENTARY SCHOOL MATHEMATICS, *INSTRUCTION, *LEARNING, *MATHEMATICS, *RESEARCH, RESEARCH METHODOLOGY, RESEARCH DESIGN, THE UNIVERSITY OF WISCONSIN, DEPARTMENT OF CURRICULUM AND INSTRUCTION, FEBRUARY, 1968

17. SE 004 732

3

14 86 22

THE ORGANIZATION OF EDUCATIONAL RESEARCH

UNITED NATIONS EDUCATION SCIENTIFIC AND CULTURAL ORGANIZATION, PARIS, FRANCE UNESCO PUBLICATION CENTER, NEW YORK

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14 95 03

SCIENCE EDUCATION INFORMATION REPORT, GENERAL BIBLIOGRAPHY SERIES 9, EVALUATION, EDUCATIONAL OBJECTIVES, LEARNING THEORIES AND PROCESSES, RESEARCH METHODOLOGY ERIC INFORMATION ANALYSIS CENTER FOR SCIENCE EDUCATION, COLUMBUS, OHIO EDRS

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33

*EDUCATIONAL RESEARCH, *EVALUATION, *EDUCATIONAL OBJECTIVES, *LEARNING, *SCIENCE EDUCATION, ACHIEVEMENT, COGNITIVE DEVELOPMENT, CONCEPT FORMATION, CREATIVITY, COLLEGE SCIENCE, CRITICAL THINKING, DOCTORAL THESES, ELEMENTARY SCHOOL SCIENCE, INTERACTION PROCESS ANALYSIS, PROBLEM SOLVING, RESEARCH METHODOLOGY, SECONDARY SCHOOL SCIENCE, TESTS, TEACHER EDUCATION



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